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1. Introduction

Observation: For traceability reasons, the product revision is changed when there is an enhancement in its functional features or any change of the manufactory process and/or raw material. In the case that the user cannot find on the following tables the reason of the product revision, it is implicit that there was a change in the internal manufactory process and/or hardware, without affects the product functionality/compatibility.

Software available at https://smartstore.beijerelectronics.com/
Update procedures & support details visit https://www.beijerelectronics.com/

2. Nexto Series

2.1 BCS-XP300 - COMPACT PLC 16DI 16DO - BJ

REV	Description	Version	Date
ВР	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
ВО	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
BN	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	19/02/2025
ВМ	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024
BL	 Updated the electrical circuit of the product's overlay, which 	1.14.36.4	09/12/2024

	C 1		
	is now fixed to the connector in a different way, providing additional security when fixing the overlay.		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.18.60.		
	 Support for BCS Tools 3.63 		
	 Included support to the new diagnostic bNetDefinedByWeb 		
	(requires BCS Tools 3.63 or greater)		
	 Improvements on System Web Page to enhance the 		
	reliability and usability.		
	• Fixed a problem which would prevent the communication		
	between BCS Tools and CPU when using "enforced encryption" option.		
	Fixed a problem where the internal RS-485 termination was		
DIZ	always turned on, independently of the setting selected on	1 1 1 0 6 1	20/00/2024
BK	CPU configuration screen.	1.14.36.4	30/09/2024
	 Fixed a problem on firmware update where the process 		
	could fail unexpectedly or take longer than expected.		
	• Fixed a problem on OpenVPN where it could incorrectly		
	show a valid certificate as invalid. Fixed a problem on CAN interface which could cause		
	communication errors with baudrate below 500kbit/s		
	Fixed visual issues on Firewall section of System Web Page		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.18.60.		
	 Support for BCS Tools 3.61 		
	 Included support for FTP 		
	Improvements on System Web Page Changed the timezone of the Clock Setting to metal the		
	 Changed the timezone of the Clock Setting to match the user's computer. 		
	 Fixed error that could make the firewall rules not to be 		
	applied when the selected interfaces was "any"		
	 Improved firmware update time 		
	 Removed restriction of local network to perform a firmware 		
	update, now allowing to execute this operation remotely.		
	 Limited the maximum number of OPC UA Server sessions to 50 		
	 Improvement in the backup of retentive data of the 		
BJ	Application		
	Fixed an issue that could make the current Application of the	1.14.20.0	08/02/2024
	device not to be erased when transfering a new Application		
	through the USB		
	• Fixed a problem where the Ethernet port could stop to work		
	on high traffic scenarioFixed an incompatibility between USB Ethernet Adapter and		
	VPN		
	Fixed an issue where it was not possible to create a user		
	(User Management)		
	■ Fixed a problem introduced on version 1.12.24.0 which was		
	making the CPU status on the treeview to become a red		
	triangle when using BCS Tools version lower than 3.40		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 		
	Improvement in the product packaging process, where the		
	connectors are now assembled instead of being delivered in		
BI	a zip bag.	1.12.29.0	19/12/2023
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
	 Improvement of the mecanic pieces of the product. 		
ВН	 Info: This version was built with CODESYS Control 	1.12.29.0	06/11/2023
BG	Runtime Toolkit 3.5.17.40.	1 10 00 0	05/00/2022
	 Support for BCS Tools 3.52. 	1.12.29.0	05/09/2023

	•	New graphical design of System Web Page.		
	•	Included support on System Web Page to set the PLC clock		
		(time/date). Removed the requirement of PLC in STOP to perform a		
	_	firmware update (now it will stop automatically).		
		Included support to allow changing the Default Gateway of a		
		network interface through SysSockSetDefaultGateway.		
		Included support to identify the device through the "wink"		
		command on programming tool.		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
		Fixed a problem introduced on the previous version, where		
		the CAN Remote Mode stopped to work.		
BF	•	Improvement on the MQTT to support multi-level topics	1.12.24.3	04/08/2023
БΓ		wildcard ('#').	1.12.24.3	04/06/2023
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.51.		
	•	Included support to OpenVPN, Firewall and USB-Ethernet		
	_	Adapter.		
		Improvements on System Web Page: Included configuration for OpenVPN, Firewall and USB-		
	_	Ethernet Adapter.		
		New Network tab, which now allows to change the IP		
		configuration and also re-introduces the embedded network		
		sniffer.		
		Login unification (now it will be requested only in the		
BE		Management tab). After the update, the credentials will be	1.12.24.0	21/06/2023
DE		reset to default.	1.12.24.0	21/00/2023
	•	Optimization in the time required to perform the firmware		
		update process.		
	•	Fixed USB modem problem where the controller could		
		suffer a memory leak when the modem reconnect multiple		
		times.		
	_	Fixed interoperability problem where the Ethernet/IP stop to communicate after inserting/configuring an USB modem.		
		Fixed OPC UA interoperability with Kepware.		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
		Hardware improvement to suport new PHY component		
D.D.		(shortage issue)	1 10 5 5	25/01/2022
BD	•	Info: This version was built with CODESYS Control	1.12.5.5	25/01/2023
		Runtime Toolkit 3.5.17.40.		
	•	Fixed a problem where the Ethernet port could eventually		
		fail to communicate when connecting the controller directly		
		to a computer (point-to-point).		
ВС	•	Fixed CANopen Slave problem where the controller could	1.12.5.5	16/01/2023
		not resume the communication after a failure in the CAN		
	_	bus. Info: This version was built with CODESYS Control		
	•	Runtime Toolkit 3.5.17.40.		
		Support for BCS Tools 3.40.		
		Fixed a problem where 3G/4G Modem could fail to		
		reconnect after a communication failure.		
	-	Increased the storage capability for the source code, stored		
מת		now on a 64MB space that is shared with application and	1 10 5 2	15/12/2022
BB		Webvisu files. It is necessary to reboot the controller without	1.12.5.3	15/12/2022
		application to make this new space available. The source		
		code size verification (warning message) was updated		
		accordingly on BCS Tools 3.40.		
	•	Fixed possible issue where the Web Page turns unaccesible		

		after using it for a very lang time		
		after using it for a very long time. Fixed the retain system to keep the values after a reboot		
		caused by an internal software error.		
	-	Fixed potential exception when an application is removed		
		(reset origin).		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	-	Minor hardware changes in order to improve the product.		
	•	Change of the product label, which now includes a QR Code		
		with the path to the Technical Documentation of the product		
BA		on the website. This change makes it unnecessary to follow the Installation Guide with the product.	1.11.10.0	06/12/2022
	•	UKCA Certification marking included on product.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	-	Improvement in the production process. Changed RTD		
AZ		settings in product testing.	1.11.10.0	04/07/2022
AL	-	Info: This version was built with CODESYS Control	1.11.10.0	04/07/2022
		Runtime Toolkit 3.5.15.0.		
	•	Minor hardware adjustments to support a new alternative		
AY	_	part number (due to the shortage of electronic components).	1.11.10.0	27/05/2022
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Minor hardware adjustments to support a new alternative		
	_	part number (due to the shortage of electronic components).		
AX	•	Info: This version was built with CODESYS Control	1.11.10.0	04/03/2022
		Runtime Toolkit 3.5.15.0.		
	-	Changes in the source code shared with other products that		
AW		doesn't affect this product behavior.	1.11.10.0	18/01/2022
AW	-	Info: This version was built with CODESYS Control	1.11.10.0	16/01/2022
		Runtime Toolkit 3.5.15.0.		
	•	Improved startup stability under specific situations with low		
AV		power supply voltage. Info: This version was built with CODESYS Control	1.11.2.0	27/10/2021
	_	Runtime Toolkit 3.5.15.0.		
		New format of firmware update file. This update requires the		
		controller running on firmware version 1.9.29.0 or greater.		
	-	Added protection against CSRF (cross-site request forgery)		
		for management pages in web interface.		
AU	-	Included login mechanism for operation mode page in web	1.11.2.0	26/07/2021
AU		interface.	1.11.2.0	20/07/2021
	•	Included a new reset mechanism to solve connection failures		
		of USB modem.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Changed firmware update mechanism to include support for		
		the new file format that will be introduced on upcoming		
		versions.		
-	•	Included support for PROFINET Controller.	1.9.29.0	26/07/2021
	•	Included support to CAN J1939.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Included support for "number of connected clients"		
		diagnostic in status bar. To see this diagnostic, BCS Tools		
AT		version 3.31 or greater is required. Removed the hidden page "getlogs" from the system web	1.9.25.0	13/01/2021
ΛI	_	page to improve cyber security.	1.9.43.0	13/01/2021
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
AS	•	Change in the product hardware to support minimum	1.9.17.0	28/12/2020
~	·	o o o o o o o o o o o o o o o o o o o		: - <u>-</u> ; - 0-9

ı	0.0000	ı	
	 operation temperature of - 20°C. Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.15.0.		
	 Included support for USB WiFi adapters. 		
	 Included support for additional USB modem devices: 		
	Huawei E3276 and E8372.		
	Fixed a problem on the PTO fast output that could		
	potentially turn on the next normal digital output.		
	Fixed a problem where the digital input value was not		
	updated on the execution of external interrupt task.		
AR	• Fixed a problem related to the system webpage cache. This	1.9.17.0	18/08/2020
AK	eliminates the need of clearing the cache on browser side,	1.9.17.0	18/08/2020
	which was previously required under some circumstances to		
	show the page correctly.		
	• Updated the product label for compliance of the UL		
	certification, File Number E496087.		
	Included protectors for the product connectors.		
	Info: This version was built with CODESYS Control		
	Runtime Toolkit 3.5.15.0.		
	 Improved performance (CPU clock increased by 85% with bootloader version 1.0.0.15 included on this version). 		
	 Included support to USB modem. 		
	 Included support to CSB modern. Included support to TLS v1.2 and client certificate in the 		
	Function Block MQTT Client (the last one requires the BCS		
	Tools 3.23 or greater).		
	 Improved immunity level of RTD inputs against external 		
	electromagnetic interferences.		
	 Fixed a problem that could cause corruption of operating 		
AQ	system in case of engergy interruption during a specific	1.9.9.0	29/05/2020
AQ	moment of power-up process, leading the controller to a	1.9.9.0	29/03/2020
	permanent inoperative state.		
	• Fixed a problem on CANopen Remote I/O mode which		
	could eventually prevent the controller from starting up.		
	• Fixed a problem that could make the DG LED to blink 4x		
	with no reason. Improvements on CANopen Remote I/O mode		
	Improvements on CANopen Remote I/O mode.Improvements on serial communication.		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.15.0.		
	 Included support for USB Serial RS-232 converter 		
	 Included support for the latest version of LibSQLClient 		
AP	library.	1.8.11.0	09/01/2020
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.15.0.		
	 Included support for CANopen Manager (requires BCS 		
	Tools 3.19 or greater).		
	 Included support for MQTT Client Function Block (requires 		
	BCS Tools 3.19 or greater).		
	Fixed the diagnostic **Detailed Social COM1 ppp. Post of the standard to		
	tDetailed.Serial.COM1.wRXPendingBytes which stopped to		
AO	work on previous version, affecting the Function Block of Serial communication.	1.8.5.0	11/12/2019
	 Fixed a situation that could cause a drift of RTC time higher 		
	than the specified.		
	 Included support for CAN termination configuration, 		
	introduced on BCS Tools 3.19.		
ı	introduced on Deb 100is 3.17.	1	
	 Info: This version was built with CODESYS Control 		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 		
AN	• Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.7.49.0	27/09/2019

	1			
		firmware image file, and will be updated automatically		
		during the firmware update process ONLY if the controller		
		is running with version 1.7.49.0 or greater. If the firmware		
		update process is performed on a controller with an installed		
		firmware lower than 1.7.49.0, it is required to perform the		
		update procedure AGAIN (i.e, twice, to the same version) to		
		have the bootloader updated.		
	•	Included support for Ethernet/IP Scanner.		
	•	Included support for I/O expansion through CANopen		
	_	(CANopen Slave mode).		
	•	Included support for 2400 and 4800 bits/s baudrates on the		
	_	serial communication.		
	•	Improvements on MODBUS RTU Slave timing, where		
		sporadic communication errors could occur on a RS-485		
	_	network composed by several slaves.		
	-	Changed maximum source code size from 16MB to 26MB		
		(requires a reboot with no application to apply this increase;		
		the warning message updated on version 3.18 of BCS		
		Tools). Fixed EasyConnection behavior, where the application was		
	_	not being erased after applying the new IP adress, resulting		
		on returning to the IP address set by the application.		
		Improved mounting of USB mass storage devices, increasing		
	_	the compatibility with certain models of flash drives.		
		Fixed maximum number of ARTI/OPC DA connections		
		from 4 to 8.		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Fixed generation of counter interrupt.		
AM	•	Info: This version was built with CODESYS Control	1.7.40.0	07/09/2019
11111		Runtime Toolkit 3.5.12.60.	1.7.10.0	0770972019
	•	Replacement for the overlay flat cable connector part		
		number and change in the insertion procedure.	1.7.05.0	06/06/2010
AL	•	Info: This version was built with CODESYS Control	1.7.35.0	06/06/2019
		Runtime Toolkit 3.5.12.60.		
	•	Included support for new homologated memories		
AK	•	Info: This version was built with CODESYS Control	1.7.35.0	21/05/2019
		Runtime Toolkit 3.5.12.60.		
	•	Fixed external input I02, which stopped to work on previous		
		version.		
	•	Improvements on fast inputs and outputs.		
AJ	•	Improvements on the USB mass storage mounting system.	1.7.32.0	09/05/2019
	•	Improved EMC immunity level		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Included support for OPC UA protocol		
	-	Included support for MSSQL_Client Function Block for		
	_	accessing Microsoft databases.		
	•	Included a fixed DNS Server configuration (8.8.8.8 and		
		8.8.4.4) Included support for Fast I/O (counters, external interrupts		
	_	Included support for Fast I/O (counters, external interrupts, PTO/PWM outputs).		
	_	Included support for FAT32 LBA filesystem, used on big		
AI	_	capacity USB mass storage devices.	1.7.17.0	15/03/2019
		Fixed a problem on function GetTimeZone, which could		
	_	cause an exception leading the CPU to STOP.		
		Improvements on GetDateAndTime and GetDayOfWeek		
		functions, which could cause peak on execution time.		
		Fixed a problem on RS-485 serial driver, which could cause		
		random errors on MODBUS RTU communication.		
		Fixed an RTD reading error that affected a small group of		
		an 1:12 10maning offor that affected a billian group of		

	 manufactured units Changed the value of some resistors and capacitors for standarization with other products (does not affects product's technical characteristics) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 		
АН	 Change in manufacturing documentation to include additional information for soldering the CPU crystal. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.7.0	30/01/2019
AG	 Changed to update status of digital input LEDs even with no application loaded Changed to blink 1x the DG LED when no application is loaded Fixed company name on "Target Vendor" field on gateway scan Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.7.0	05/12/2018
AF	 Improved LED diagnostic indication Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.5.0	12/11/2018
AE	 Included support for USB mass storage devices Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.3.0	26/10/2018
AD	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.40. 	1.7.0.12	10/10/2018

2.2 BCS-XP315 - COMPACT PLC 16DI 16DO 5AI 2RTD - BJ

REV	Description	Version	Date
BQ	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
ВР	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
ВО	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	19/02/2025
BN	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024
BM	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control 	1.14.36.4	23/10/2024

	Runtime Toolkit 3.5.18.60.		
BL	 Updated the electrical circuit of the product's overlay, which is now fixed to the connector in a different way, providing additional security when fixing the overlay. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	07/10/2024
ВК	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem where the internal RS-485 termination was always turned on, independently of the setting selected on CPU configuration screen. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on OpenVPN where it could incorrectly show a valid certificate as invalid. Fixed a problem on CAN interface which could cause communication errors with baudrate below 500kbit/s Fixed visual issues on Firewall section of System Web Page Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	30/09/2024
ВЈ	 Support for BCS Tools 3.61 Included support for FTP Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. Limited the maximum number of OPC UA Server sessions to 50 Improvement in the backup of retentive data of the Application Fixed an issue that could make the current Application of the device not to be erased when transfering a new Application through the USB Fixed a problem where the Ethernet port could stop to work on high traffic scenario Fixed an incompatibility between USB Ethernet Adapter and VPN Fixed an issue where it was not possible to create a user (User Management) Fixed a problem introduced on version 1.12.24.0 which was making the CPU status on the treeview to become a red triangle when using BCS Tools version lower than 3.40 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.20.0	08/02/2024
BI	 Improvement in the product packaging process, where the connectors are now assembled instead of being delivered in a zip bag. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.29.0	19/12/2023
ВН	 Improvement of the mecanic pieces of the product. Info: This version was built with CODESYS Control 	1.12.29.0	06/11/2023

	Runtime Toolkit 3.5.17.40.		
BG	 Support for BCS Tools 3.52. New graphical design of System Web Page. Included support on System Web Page to set the PLC clock (time/date). Removed the requirement of PLC in STOP to perform a firmware update (now it will stop automatically). Included support to allow changing the Default Gateway of a network interface through SysSockSetDefaultGateway. Included support to identify the device through the "wink" command on programming tool. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. Fixed a problem introduced on the previous version, where the CAN Remote Mode stopped to work. Improvement on the MQTT to support multi-level topics 	1.12.29.0	05/09/2023
BF	wildcard ('#'). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40.	1.12.24.3	04/08/2023
BE	 Support for BCS Tools 3.51. Included support to OpenVPN, Firewall and USB-Ethernet Adapter. Improvements on System Web Page: Included configuration for OpenVPN, Firewall and USB-Ethernet Adapter. New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. Fixed USB modem problem where the controller could suffer a memory leak when the modem reconnect multiple times. Fixed interoperability problem where the Ethernet/IP stop to communicate after inserting/configuring an USB modem. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.24.0	21/06/2023
BD	 Hardware improvement to suport new PHY component (shortage issue) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.5	25/01/2023
ВС	 Fixed a problem where the Ethernet port could eventually fail to communicate when connecting the controller directly to a computer (point-to-point). Fixed CANopen Slave problem where the controller could not resume the communication after a failure in the CAN bus. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.5	16/01/2023
ВВ	 Support for BCS Tools 3.40. Fixed a problem where 3G/4G Modem could fail to reconnect after a communication failure. Increased the storage capability for the source code, stored now on a 64MB space that is shared with application and Webvisu files. It is necessary to reboot the controller without application to make this new space available. The source code size verification (warning message) was updated 	1.12.5.3	15/12/2022

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	_	accordingly on BCS Tools 3.40.		
	•	Fixed possible issue where the Web Page turns unaccesible		
		after using it for a very long time. Fixed the retain system to keep the values after a reboot		
	_	caused by an internal software error.		
		Fixed potential exception when an application is removed		
	_	(reset origin).		
		Included support for additional analog inputs using		
	_	LibIntegratedIoExt introduced on BCS Tools 3.40.		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
		Minor hardware changes in order to improve the product.		
		Change of the product label, which now includes a QR Code		
		with the path to the Technical Documentation of the product		
D. 4		on the website. This change makes it unnecessary to follow	4 4 4 4 0 0	0 < 14 0 10 000
BA		the Installation Guide with the product.	1.11.10.0	06/12/2022
		UKCA Certification marking included on product.		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Improvement in the production process. Changed RTD		
AZ		settings in product testing.	1.11.10.0	04/07/2022
ΛL.	•	Info: This version was built with CODESYS Control	1.11.10.0	U 1 /U1/2U22
		Runtime Toolkit 3.5.15.0.		
	-	Minor hardware adjustments to support a new alternative		
AY		part number (due to the shortage of electronic components).	1.11.10.0	27/05/2022
711	•	Info: This version was built with CODESYS Control	1.11.10.0	2170372022
		Runtime Toolkit 3.5.15.0.		
	•	Minor hardware adjustments to support a new alternative		
AX		part number (due to the shortage of electronic components).	1.11.10.0	04/03/2022
	•	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.15.0.		
	•	Changes in the source code shared with other products that		
AW		doesn't affect this product behavior. Info: This version was built with CODESYS Control	1.11.10.0	18/01/2022
	•			
		Runtime Toolkit 3.5.15.0. Small changes in the product's hardware to improve font		
	_	startup behavior, making startup faster.		
AV		Info: This version was built with CODESYS Control	1.11.2.0	27/10/2021
		Runtime Toolkit 3.5.15.0.		
		New format of firmware update file. This update requires the		
		controller running on firmware version 1.9.29.0 or greater.		
		Added protection against CSRF (cross-site request forgery)		
		for management pages in web interface.		
A T T		Included login mechanism for operation mode page in web	1 11 2 0	26/07/2021
AU		interface.	1.11.2.0	26/07/2021
	•	Included a new reset mechanism to solve connection failures		
		of USB modem.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	-	Changed firmware update mechanism to include support for		
		the new file format that will be introduced on upcoming		
		versions.	40.55	a < 10 = 12 = = :
-	•	Included support for PROFINET Controller.	1.9.29.0	26/07/2021
	•	Included support to CAN J1939.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Included support for "number of connected clients"		
л Т		diagnostic in status bar. To see this diagnostic, BCS Tools	10250	12/01/2021
AT	_	version 3.31 or greater is required.	1.9.25.0	13/01/2021
	•	Removed the hidden page "getlogs" from the system web		
		page to improve cyber security.		

	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Change in the product hardware to support minimum		
AS	_	operation temperature of - 20°C.	1.9.17.0	28/12/2020
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Included support for USB WiFi adapters.		
	-	Included support for additional USB modem devices:		
		Huawei E3276 and E8372.		
	•	Fixed a problem on the PTO fast output that could		
		potentially turn on the next normal digital output.		
	-	Fixed a problem that could lead to a negative offset on RTD		
	_	reading.		
	•	Fixed a problem where the digital input value was not updated on the execution of external interrupt task.		
AR		Fixed a problem related to the system webpage cache. This	1.9.17.0	18/08/2020
		eliminates the need of clearing the cache on browser side,		
		which was previously required under some circumstances to		
		show the page correctly.		
	•	Updated the product label for compliance of the UL		
		certification, File Number E496087.		
	•	Included protectors for the product connectors.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Improved performance (CPU clock increased by 85% with		
		bootloader version 1.0.0.15 included on this version).		
		Included support to USB modem.		
	-	Included support to TLS v1.2 and client certificate in the		
		Function Block MQTT Client (the last one requires the BCS		
		Tools 3.23 or greater).		
	-	Improved immunity level of RTD inputs against external		
		electromagnetic interferences. Fixed a problem that could cause corruption of operating		
AQ	_	system in case of engergy interruption during a specific	1.9.9.0	29/05/2020
		moment of power-up process, leading the controller to a		
		permanent inoperative state.		
	-	Fixed a problem on CANopen Remote I/O mode which		
		could eventually prevent the controller from starting up.		
	•	Improvements on CANopen Remote I/O mode.		
	-	Improvements on serial communication.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	Included support for USB Serial RS-232 converter		
	•	Included support for the latest version of LibSQLClient		
AP		library.	1.8.11.0	09/01/2020
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.15.0.		
	•	Included support for CANopen Manager (requires BCS		
	_	Tools 3.19 or greater).		
	•	Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater).		
		Fixed the diagnostic		
		tDetailed.Serial.COM1.wRXPendingBytes which stopped to		
AO		work on previous version, affecting the Function Block of	1.8.5.0	11/12/2019
AU		Serial communication.	1.0.3.0	11/12/2019
	•	Fixed a situation that could cause a drift of RTC time higher		
	_	than the specified.		
	•	Included support for CAN termination configuration, introduced on BCS Tools 3.19.		
		Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.15.0.		
	<u> </u>	Rummic Toolkit 3.3.13.0.		

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AN	 Included bootloader version 1.0.0.11, which increases the immunity level against external electromagnetic interferences. The bootloader is now included inside the firmware image file, and will be updated automatically during the firmware update process ONLY if the controller is running with version 1.7.49.0 or greater. If the firmware update process is performed on a controller with an installed firmware lower than 1.7.49.0, it is required to perform the update procedure AGAIN (i.e, twice, to the same version) to have the bootloader updated. Included support for Ethernet/IP Scanner. Included support for I/O expansion through CANopen (CANopen Slave mode). Included support for 2400 and 4800 bits/s baudrates on the serial communication. Improvements on MODBUS RTU Slave timing, where sporadic communication errors could occur on a RS-485 network composed by several slaves. Changed maximum source code size from 16MB to 26MB (requires a reboot with no apllication to apply this increase; the warning message updated on version 3.18 of BCS Tools). Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Improved mounting of USB mass storage devices, increasing the compatibility with certain models of flash drives. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.49.0	27/09/2019
AM	 Fixed generation of counter interrupt. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.40.0	07/09/2019
AL	 Replacement for the overlay flat cable connector part number and change in the insertion procedure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.35.0	06/06/2019
AK	 Included support for new homologated memories Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.35.0	21/05/2019
AJ	 Fixed external input IO2, which stopped to work on previous version. Improvements on fast inputs and outputs. Improvements on the USB mass storage mounting system. Improved EMC immunity level Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.32.0	09/05/2019
AI	 Included support for OPC UA protocol Included support for MSSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Included support for Fast I/O (counters, external interrupts, PTO/PWM outputs,) Included support for FAT32 LBA filesystem, used on big capacity USB mass storage devices Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. 	1.7.17.0	15/03/2019

	•	Fixed a problem on RS-485 serial driver, which could cause		
		random errors on MODBUS RTU communication		
	•	Fixed an RTD reading error that affected a small group of		
	_	manufactured units		
	•	Changed the value of some resistors and capacitors for		
		standarization with other products (does not affects		
	_	product's technical characteristics)		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60.		
		Change in manufacturing documentation to include		
	_	additional information for soldering the CPU crystal.		
AH		Info: This version was built with CODESYS Control	1.7.7.0	30/01/2019
		Runtime Toolkit 3.5.12.60.		
	•	Changed to update status of digital input LEDs even with no		
		application loaded		
	•	Changed to blink 1x the DG LED when no application is		
		loaded		
	•	Fixed company name on "Target Vendor" field on gateway		
AG		scan	1.7.7.0	05/12/2018
	•	Removed log message generated when the system time is		
		updated by SNTP (to avoid log being flooded with this		
		message)		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Improved LED diagnostic indication		
AF	•	Info: This version was built with CODESYS Control	1.7.5.0	12/11/2018
		Runtime Toolkit 3.5.12.60.		
	-	Included support for USB mass storage devices		
AE	•	Info: This version was built with CODESYS Control	1.7.3.0	26/10/2018
		Runtime Toolkit 3.5.12.60.		
	-	Initial revision.	1.7.0.12	
AD	•	Info: This version was built with CODESYS Control		10/10/2018
		Runtime Toolkit 3.5.12.40.		

2.3 BCS-XP325 - COMPACT PLC 16DI 16DO 5AI 4AO 2RTD - BJ

REV	Description	Version	Date
BU	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
ВТ	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
BS	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/02/2025
BR	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024

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BQ	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	16/10/2024
ВР	 Updated the electrical circuit of the product's overlay, which is now fixed to the connector in a different way, providing additional security when fixing the overlay. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	03/10/2024
ВО	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem where the internal RS-485 termination was always turned on, independently of the setting selected on CPU configuration screen. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on OpenVPN where it could incorrectly show a valid certificate as invalid. Fixed a problem on CAN interface which could cause communication errors with baudrate below 500kbit/s Fixed visual issues on Firewall section of System Web Page Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	30/09/2024
BN	 Support for BCS Tools 3.61 Included support for FTP Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. Limited the maximum number of OPC UA Server sessions to 50 Improvement in the backup of retentive data of the Application Fixed an issue that could make the current Application of the device not to be erased when transfering a new Application through the USB Fixed a problem where the Ethernet port could stop to work on high traffic scenario Fixed an incompatibility between USB Ethernet Adapter and VPN Fixed an issue where it was not possible to create a user (User Management) Fixed a problem introduced on version 1.12.24.0 which was making the CPU status on the treeview to become a red triangle when using BCS Tools version lower than 3.40 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.20.0	08/02/2024
ВМ	 Runtime Toolkit 3.5.18.60. Improvement in the product packaging process, where the connectors are now assembled instead of being delivered in a zip bag. 	1.12.29.0	19/12/2023

	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
BL	 Improvement of the mecanic pieces of the product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.29.0	06/11/2023
BK	 Support for BCS Tools 3.52. New graphical design of System Web Page. Included support on System Web Page to set the PLC clock (time/date). Removed the requirement of PLC in STOP to perform a firmware update (now it will stop automatically). Included support to allow changing the Default Gateway of a network interface through SysSockSetDefaultGateway. Included support to identify the device through the "wink" command on programming tool. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.29.0	05/09/2023
ВЈ	 Fixed a problem introduced on the previous version, where the CAN Remote Mode stopped to work. Improvement on the MQTT to support multi-level topics wildcard ('#'). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.24.3	04/08/2023
BI	 Support for BCS Tools 3.51. Included support to OpenVPN, Firewall and USB-Ethernet Adapter. Improvements on System Web Page: Included configuration for OpenVPN, Firewall and USB-Ethernet Adapter. New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. Fixed USB modem problem where the controller could suffer a memory leak when the modem reconnect multiple times. Fixed interoperability problem where the Ethernet/IP stop to communicate after inserting/configuring an USB modem. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.24.0	21/06/2023
ВН	 Hardware improvement to suport new PHY component (shortage issue) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.5	25/01/2023
BG	 Fixed a problem where the Ethernet port could eventually fail to communicate when connecting the controller directly to a computer (point-to-point). Fixed CANopen Slave problem where the controller could not resume the communication after a failure in the CAN bus. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.5	16/01/2023
BF	 Support for BCS Tools 3.40. Fixed a problem where 3G/4G Modem could fail to reconnect after a communication failure. Increased the storage capability for the source code, stored 	1.12.5.3	15/12/2022

		now on a 64MB space that is shared with application and Webvisu files. It is necessary to reboot the controller without application to make this new space available. The source code size verification (warning message) was updated accordingly on BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed the retain system to keep the values after a reboot caused by an internal software error. Fixed potential exception when an application is removed (reset origin). Included support for additional analog inputs using LibIntegratedIoExt introduced on BCS Tools 3.40. Info: This version was built with CODESYS Control		
BE	:	Runtime Toolkit 3.5.17.40. Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.10.0	06/12/2022
BD	•	Improvement in the production process. Changed RTD settings in product testing. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.10.0	04/07/2022
ВС	•	Minor hardware adjustments to support a new alternative part number (due to the shortage of electronic components). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.10.0	27/05/2022
ВВ	•	Minor hardware adjustments to support a new alternative part number (due to the shortage of electronic components). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.10.0	04/03/2022
BA	•	Changes in the source code shared with other products that doesn't affect this product behavior. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.10.0	18/01/2022
AZ	•	Small changes in the product's hardware to improve font startup behavior, making startup faster. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.2.0	27/10/2021
AY		New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Included login mechanism for operation mode page in web interface. Included a new reset mechanism to solve connection failures of USB modem. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.2.0	26/07/2021
-		Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Included support for PROFINET Controller. Included support to CAN J1939. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.29.0	26/07/2021
AX	•	Included support for "number of connected clients"	1.9.25.0	13/01/2021
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diagnostic in status bar. To see this diagnostic, BCS Tools	
version 3.31 or greater is required.	
 Removed the hidden page "getlogs" from the system web 	
page to improve cyber security.	
 Info: This version was built with CODESYS Control 	
Runtime Toolkit 3.5.15.0.	
 Change in the product hardware to support minimum 	
AW operation temperature of - 20°C.	28/12/2020
Info: This version was built with CODESYS Control	20,12,2020
Runtime Toolkit 3.5.15.0.	
 Updated the product label for compliance of the UL 	
AV certification, File Number E496087.	18/08/2020
Into: This version was built with CODESYS Control	10,00,2020
Runtime Toolkit 3.5.15.0.	
 Included support for USB WiFi adapters. 	
 Included suppport for additional USB modem devices: 	
Huawei E3276 and E8372.	
 Fixed a problem on the PTO fast output that could 	
potentially turn on the next normal digital output.	
Fixed a problem that could lead to a negative offset on RTD	
reading.	
AU Fixed a problem where the digital input value was not 1.9.17.0	18/08/2020
updated on the execution of external interrupt task.	
• Fixed a problem related to the system webpage cache. This	
eliminates the need of clearing the cache on browser side,	
which was previously required under some circumstances to	
show the page correctly.	
Included protectors for the product connectors.	
Info: This version was built with CODESYS Control	
Runtime Toolkit 3.5.15.0.	
Improved performance (CPU clock increased by 85% with	
bootloader version 1.0.0.15 included on this version).	
 Included support to USB modem. Included support to TLS v1.2 and client certificate in the 	
Function Block MQTT Client (the last one requires the BCS	
Tools 3.23 or greater).	
Improved immunity level of RTD inputs against external	
electromagnetic interferences.	
 Fixed a problem that could cause corruption of operating 	
AT system in case of engergy interruption during a specific 1.9.9.0	29/05/2020
moment of power-up process, leading the controller to a	
permanent inoperative state.	
Fixed a problem on CANopen Remote I/O mode which	
could eventually prevent the controller from starting up.	
 Improvements on CANopen Remote I/O mode. 	
 Improvements on serial communication. 	
 Info: This version was built with CODESYS Control 	
Runtime Toolkit 3.5.15.0.	
 Included support for USB Serial RS-232 converter 	
 Included support for the latest version of LibSQLClient 	
AS library. 1.8.11.0	01/09/2020
 Info: This version was built with CODESYS Control 	
Runtime Toolkit 3.5.15.0.	
 Included support for MQTT Client Function Block (requires 	
BCS Tools 3.19 or greater).	
Fixed the diagnostic	
tDetailed Serial COM1 wRXPendingBytes which stopped to	11/10/0010
AR work on previous version, affecting the Function Block of 1.8.5.0	11/12/2019
Serial communication.	
 Fixed a situation that could cause a drift of RTC time higher 	
than the specified.	

	_	I al la la serve de CANT de maior d'annue d'an		
	•	Included support for CAN termination configuration, introduced on BCS Tools 3.19.		
	_	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.15.0.		
	-	Included bootloader version 1.0.0.11, which increases the		
		immunity level against external electromagnetic		
		interferences. The bootloader is now included inside the		
		firmware image file, and will be updated automatically		
		during the firmware update process ONLY if the controller		
		is running with version 1.7.49.0 or greater. If the firmware		
		update process is performed on a controller with an installed		
		firmware lower than 1.7.49.0, it is required to perform the		
		update procedure AGAIN (i.e, twice, to the same version) to		
	_	have the bootloader updated.		
		Included support for Ethernet/IP Scanner. Included support for I/O expansion through CANopen		
	_	(CANopen Slave mode).		
		Included support for 2400 and 4800 bits/s baudrates on the		
		serial communication.		
AQ	-	Improvements on MODBUS RTU Slave timing, where	1.7.49.0	27/09/2019
		sporadic communication errors could occur on a RS-485		
		network composed by several slaves.		
	•	Changed maximum source code size from 16MB to 26MB		
		(requires a reboot with no application to apply this increase;		
		the warning message updated on version 3.18 of BCS		
		Tools).		
	-	Fixed EasyConnection behavior, where the application was		
		not being erased after applying the new IP address, resulting		
		on returning to the IP address set by the application. Improved mounting of USB mass storage devices, increasing		
	_	the compatibility with certain models of flash drives.		
	•	Fixed maximum number of ARTI/OPC DA connections		
		from 4 to 8.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Fixed generation of counter interrupt.		
AP	-	Info: This version was built with CODESYS Control	1.7.40.0	07/09/2019
		Runtime Toolkit 3.5.12.60.		
	•	Replacement for the overlay flat cable connector part		
AO		number and change in the insertion procedure.	1.7.35.0	06/06/2019
	•	Info: This version was built with CODESYS Control		
	-	Runtime Toolkit 3.5.12.60.		
AN		Included support for new homologated memories Info: This version was built with CODESYS Control	1.7.35.0	21/05/2019
TALL] -	Runtime Toolkit 3.5.12.60.	1.7.33.0	21/03/2017
	•	Fixed external input I02, which stopped to work on previous		
		version.		
	-	Improvements on fast inputs and outputs.		
АМ	-	Improvements on the USB mass storage mounting system.	17220	00/05/2010
AM	-	Improvements in CANopen Manager performance.	1.7.32.0	09/05/2019
	-	Improved EMC immunity level		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Included support for OPC UA protocol		
	•	Included support for MSSQL_Client Function Block for		
	_	accessing Microsoft databases.		
AL	_	Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4)	1.7.17.0	15/03/2019
		8.8.4.4) Included support for Fast I/O (counters, external interrupts,		
	_	PTO/PWM outputs,)		
		Included support for CANopen Manager		
	_	meraded support for Cristopell Manager		

			1	
	-	Included support for FAT32 LBA filesystem, used on big		
	_	capacity USB mass storage devices		
	•	Fixed a problem on function GetTimeZone, which could		
	_	cause an exception leading the CPU to STOP.		
	•	Improvements on GetDateAndTime and GetDayOfWeek		
	_	functions, which could cause peak on execution time.		
	•	Fixed a problem on RS-485 serial driver, which could cause		
		random errors on MODBUS RTU communication		
	-	Fixed an RTD reading error that affected a small group of		
	_	manufactured units		
	•	Changed the value of some resistors and capacitors for		
		standarization with other products (does not affects		
		product's technical characteristics) Info: This version was built with CODESYS Control		
	-			
	•	Runtime Toolkit 3.5.12.60.		
	-	Change in manufacturing documentation to include		
AK	_	additional information for soldering the CPU crystal. Info: This version was built with CODESYS Control	1.7.7.0	30/01/2019
	-			
	•	Runtime Toolkit 3.5.12.60.		
	-	Changed to update status of digital input LEDs even with no		
		application loaded		
	-	Changed to blink 1x the DG LED when no application is loaded		
	_	Fixed company name on "Target Vendor" field on gateway		
AJ	_	scan	1.7.7.0	05/12/2018
AJ		Removed log message generated when the system time is	1.7.7.0	03/12/2016
	_	updated by SNTP (to avoid log being flooded with this		
		message)		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.12.60.		
	•	Improved LED diagnostic indication		
AI	•	Info: This version was built with CODESYS Control	1.7.5.0	12/11/2018
7 11		Runtime Toolkit 3.5.12.60.	1.7.5.0	12/11/2010
	•	Included support for USB mass storage devices		
AH	•	Info: This version was built with CODESYS Control	1.7.3.0	26/10/2018
, 111		Runtime Toolkit 3.5.12.60.	1.7.3.0	20,10,2010
	•	Initial revision.	1.7.0.12	
AG	-	Info: This version was built with CODESYS Control	1.7.0.12	10/10/2018
710		Runtime Toolkit 3.5.12.40.		10/10/2010
		Kullille 1 Ookit 3.3.12.40.		

2.4 BCS-XP340 - COMPACT PLC 16DI 16DO 5AI 4AO 2RTD WEB - BJ

REV	Description	Version	Date
ВВ	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
BA	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AZ	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/02/2025

AY	•	Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60.	1.14.36.6	16/12/2024
AX	•	This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60.	1.14.36.4	12/11/2024
AW		Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem where the internal RS-485 termination was always turned on, independently of the setting selected on CPU configuration screen. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on OpenVPN where it could incorrectly show a valid certificate as invalid. Fixed a problem on CAN interface which could cause communication errors with baudrate below 500kbit/s Fixed visual issues on Firewall section of System Web Page Fixed a problem on WebVisu introduced on version 1.14.20.0 which could cause a PLC reset when downloading the application Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60.	1.14.36.4	30/09/2024
AV		Support for BCS Tools 3.61 Included support for FTP Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Fixed a problem related to the Trend Graphic of the WebVisu where the controller could restart if the Application use it Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. Limited the maximum number of OPC UA Server sessions to 50 Improvement in the backup of retentive data of the Application Fixed an issue that could make the current Application of the device not to be erased when transfering a new Application through the USB Fixed a problem where the Ethernet port could stop to work on high traffic scenario Fixed an incompatibility between USB Ethernet Adapter and VPN Fixed an issue where it was not possible to create a user (User Management) Fixed a problem introduced on version 1.12.24.0 which was making the CPU status on the treeview to become a red	1.14.20.0	08/02/2024

Date(dd/mm/yyyy): 10/06/2025

	1			
		triangle when using BCS Tools version lower than 3.40		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Improvement in the product packaging process, where the		
ATT		connectors are now assembled instead of being delivered in	1 12 20 0	10/12/2022
AU	_	a zip bag.	1.12.29.0	19/12/2023
	•	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.17.40.		
ΛT	-	Improvement of the mecanic pieces of the product.	1 12 20 0	06/11/2022
AT	•	Info: This version was built with CODESYS Control	1.12.29.0	06/11/2023
	_	Runtime Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.52.		
		New graphical design of System Web Page.		
	_	Included support on System Web Page to set the PLC clock		
		(time/date). Removed the requirement of PLC in STOP to perform a		
	_	firmware update (now it will stop automatically).		
AS		Included support to allow changing the Default Gateway of a	1.12.29.0	05/09/2023
	_	network interface through SysSockSetDefaultGateway.		
		Included support to identify the device through the "wink"		
		command on programming tool.		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	Fixed a problem introduced on the previous version, where		
		the CAN Remote Mode stopped to work.		
4.70	•	Improvement on the MQTT to support multi-level topics	1 10 04 0	0.4/00/2022
AR		wildcard ('#').	1.12.24.3	04/08/2023
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	-	Support for BCS Tools 3.51.		
	-	Included support to OpenVPN, Firewall and USB-Ethernet		
		Adapter.		
	•	Improvements on System Web Page:		
	•	Included configuration for OpenVPN, Firewall and USB-		
		Ethernet Adapter.		
	-	New Network tab, which now allows to change the IP		
		configuration and also re-introduces the embedded network		
		sniffer.		
	•	Login unification (now it will be requested only in the		
AQ		Management tab). After the update, the credentials will be	1.12.24.0	21/06/2023
- •		reset to default.		. 5 5. 3020
	•	Optimization in the time required to perform the firmware		
	_	update process.		
	_	Fixed USB modem problem where the controller could suffer a memory leak when the modem reconnect multiple		
		suffer a memory leak when the modem reconnect multiple times.		
		Fixed interoperability problem where the Ethernet/IP stop to		
	_	communicate after inserting/configuring an USB modem.		
	•	Fixed OPC UA interoperability with Kepware.		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	Hardware improvement to suport new PHY component		
		(shortage issue)		
AP	-	Info: This version was built with CODESYS Control	1.12.5.5	25/01/2023
		Runtime Toolkit 3.5.17.40.		
	•	Fixed a problem where the Ethernet port could eventually		
		fail to communicate when connecting the controller directly		
4.0		to a computer (point-to-point).	1 10 5 5	1.6/01/2022
AO	-	Fixed CANopen Slave problem where the controller could	1.12.5.5	16/01/2023
		not resume the communication after a failure in the CAN		
		bus.		

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	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
AN	 Support for BCS Tools 3.40. Fixed a problem where 3G/4G Modem could fail to reconnect after a communication failure. Increased the storage capability for the source code, stored now on a 64MB space that is shared with application and Webvisu files. It is necessary to reboot the controller without application to make this new space available. The source code size verification (warning message) was updated accordingly on BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed the retain system to keep the values after a reboot caused by an internal software error. Fixed potential exception when an application is removed (reset origin). Included support for additional analog inputs using LibIntegratedIoExt introduced on BCS Tools 3.40. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.12.5.3	15/12/2022
AM	 Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	06/12/2022
AL	 Improvement in the production process. Changed RTD settings in product testing. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	04/07/2022
AK	 Minor hardware adjustments to support a new alternative part number (due to the shortage of electronic components). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	27/05/2022
AJ	 Minor hardware adjustments to support a new alternative part number (due to the shortage of electronic components). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	04/03/2022
AI	 Changes in the source code shared with other products that doesn't affect this product behavior. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.10.0	18/01/2022
АН	 Small changes in the product's hardware to improve font startup behavior, making startup faster. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.2.0	27/10/2021
AG	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Included login mechanism for operation mode page in web interface. Included a new reset mechanism to solve connection failures of USB modem. Fixed misaligned memory exception due to IEC104 server mappings. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.11.2.0	26/07/2021

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-	•	Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Included support for PROFINET Controller. Included support to CAN J1939. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.29.0	26/07/2021
AF	•	Included support for "number of connected clients" diagnostic in status bar. To see this diagnostic, BCS Tools version 3.31 or greater is required. Removed the hidden page "getlogs" from the system web page to improve cyber security. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.25.0	13/01/2021
AE	•	Change in the product hardware to support minimum operation temperature of - 20°C. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.17.0	28/12/2020
AD		Included support for USB WiFi adapters. Included suppport for additional USB modem devices: Huawei E3276 and E8372. Fixed a problem on the PTO fast output that could potentially turn on the next normal digital output. Fixed a problem that could lead to a negative offset on RTD reading. Fixed a problem where the digital input value was not updated on the execution of external interrupt task. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. Updated the product label for compliance of the UL certification, File Number E496087. Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.17.0	18/08/2020
AC		Improved performance (CPU clock increased by 85% with bootloader version 1.0.0.15 included on this version). Included support for IEC 104 Server protocol (requires BCS Tools 3.23 or greater) Included support to USB modem. Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). Improved immunity level of RTD inputs against external electromagnetic interferences. Fixed a problem that could eventually generate an error when downloading an application with Webvisu. Fixed a problem that could cause corruption of operating system in case of engergy interruption during a specific moment of power-up process, leading the controller to a permanent inoperative state. Fixed a problem on CANopen Remote I/O mode which could eventually prevent the controller from starting up. Improvements on CANopen Remote I/O mode. Improvements on serial communication. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.9.0	29/05/2020
AB	-	Included support for USB Serial RS-232 converter Included support for the latest version of LibSQLClient library.	1.8.11.0	09/01/2020

	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	-	Initial revision.	1.8.5.0	
AA	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		11/12/2019

Date(dd/mm/yyyy): 10/06/2025

2.5 BCS-XP350 - COMPACT PLC 16DI 16DO 5AI 2RTD MOTION - BJ

REV	Description	Version	Date
AP	 Fixed an issue introduced on version 1.12.24.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Included support for version 5.0 of TP-Link UE300 USB-Ethernet adapter. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
AO	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AN	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/03/2025
AM	 Starting on this revision, the product becomes certified for UL Listed/Class I, Division 2, Groups A, B, C, D T4 (C1D2). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	20/02/2025
AL	 Updated the electrical circuit of the product's overlay, which is now fixed to the connector in a different way, providing additional security when fixing the overlay. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. Updated the product label for compliance of the UL certification, File Number E496087. 	1.14.36.6	23/01/2025
AK	 Fixed a problem where, in very rare occasions, the controller firmware could be corrupted after a power down, making it unable to boot again (bricked). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.6	16/12/2024
АЈ	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem where the internal RS-485 termination was always turned on, independently of the setting selected on CPU configuration screen. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on OpenVPN where it could incorrectly 	1.14.36.4	30/09/2024

		show a valid certificate as invalid.		
		Fixed a problem on CAN interface which could cause		
		communication errors with baudrate below 500kbit/s		
	-	Fixed visual issues on Firewall section of System Web Page		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Support for BCS Tools 3.61		
	•	Included support for FTP		
	•	Improvements on System Web Page		
		 Changed the timezone of the Clock Setting to match the 		
		user's computer.		
		 Fixed error that could make the firewall rules not to be 		
		applied when the selected interfaces was "any"		
	•	Improved firmware update time		
	•	Removed restriction of local network to perform a firmware		
		update, now allowing to execute this operation remotely.		
	•	Limited the maximum number of OPC UA Server sessions		
		to 50		
A T	-	Improvement in the backup of retentive data of the		
AI	_	Application	1.14.20.0	08/02/2024
	•	Fixed an issue that could make the current Application of the		
		device not to be erased when transfering a new Application		
		through the USB Fixed a problem where the Ethernet port could stop to work		
	_	on high traffic scenario		
		Fixed an incompatibility between USB Ethernet Adapter and		
		VPN		
		Fixed an issue where it was not possible to create a user		
		(User Management)		
	•	Fixed a problem introduced on version 1.12.24.0 which was		
		making the CPU status on the treeview to become a red		
		triangle when using BCS Tools version lower than 3.40		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Improvement in the product packaging process, where the		
		connectors are now assembled instead of being delivered in		
AH		a zip bag.	1.12.29.0	19/12/2023
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	Improvement of the mecanic pieces of the product.		
AG	•	Info: This version was built with CODESYS Control	1.12.29.0	06/11/2023
		Runtime Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.52.		
	•	New graphical design of System Web Page.		
	•	Included support on System Web Page to set the PLC clock		
		(time/date).		
	-	Removed the requirement of PLC in STOP to perform a		
AF	_	firmware update (now it will stop automatically).	1.12.29.0	05/09/2023
	•	Included support to allow changing the Default Gateway of a		
		network interface through SysSockSetDefaultGateway.		
	•	Included support to identify the device through the "wink" command on programming tool.		
		Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.17.40.		
		Improvement on the MQTT to support multi-level topics		
	_	wildcard ('#').		
AE	•	Info: This version was built with CODESYS Control	1.12.24.3	04/08/2023
		Runtime Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.51.		
AD	•	Included support to OpenVPN, Firewall and USB-Ethernet	1.12.24.0	21/06/2023
		Adapter.	1.12.21.0	21, 50, 2023

	Improvements on System Web Page:		
	 Included configuration for OpenVPN, Firewall and USB- Ethernet Adapter. 		
	 New Network tab, which now allows to change the IP 		
	configuration and also re-introduces the embedded network		
	sniffer.		
	 Login unification (now it will be requested only in the 		
	Management tab). After the update, the credentials will be		
	reset to default.		
	 Optimization in the time required to perform the firmware 		
	update process.Fixed USB modem problem where the controller could		
	suffer a memory leak when the modem reconnect multiple		
	times.		
	 Fixed interoperability problem where the Ethernet/IP stop to 		
	communicate after inserting/configuring an USB modem.		
	 Fixed OPC UA interoperability with Kepware. 		
	 Info: This version was built with CODESYS Control 		
	Runtime Toolkit 3.5.17.40.		
	Hardware improvement to suport new PHY component (chartene issue)		
AC	(shortage issue)Info: This version was built with CODESYS Control	1.12.5.5	25/01/2023
	Runtime Toolkit 3.5.17.40.		
	Fixed a problem where the Ethernet port could eventually		
	fail to communicate when connecting the controller directly		
	to a computer (point-to-point).		
AB	 Fixed CANopen Slave problem where the controller could 	1.12.5.5	16/01/2023
	not resume the communication after a failure in the CAN	2.12.0.0	= 3, 3 1, 2 3 2 3
	bus.Info: This version was built with CODESYS Control		
	Runtime Toolkit 3.5.17.40.		
	Initial revision.	1.12.5.3	
AA	 Info: This version was built with CODESYS Control 	2.12.0.0	15/12/2022
	Runtime Toolkit 3.5.17.40.		

2.6 BCS-NX3003 - CPU 1 ETH, 1 SERIAL, 14 DI, 10 DO AND PSU 10W - BJ

REV	Description	Version	Date
ВВ	 Fixed an issue introduced on version 1.12.23.0 where the controller could suffer a retentivity loss (retain data initialized) when powered off within a time window of 5 seconds after the application goes to RUN. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.12	10/06/2025
BA	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AZ	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process 	1.14.36.2	30/09/2024

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		could fail unexpectedly or take longer than expected. Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	•	Support for BCS Tools 3.61		
	•	Improvements on System Web Page		
		 Changed the timezone of the Clock Setting to match the 		
		user's computer.		
		 Fixed error that could make the firewall rules not to be 		
		applied when the selected interfaces was "any"		
	•	Fixed a problem related to the Trend Graphic of the		
		WebVisu where the controller could restart if the		
		Application use it		
	•	Improved firmware update time		
AY	•	Removed restriction of local network to perform a firmware	1.14.20.0	08/02/2024
		update, now allowing to execute this operation remotely.		
	•	Limited the maximum number of OPC UA Server sessions		
		to 50		
	•	Fixed error that could generate an exception when		
		downloaded an Application with EtherCAT or PROFINET		
	•	Improvement in the backup of retentive data of the		
	_	Application		
	•	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.18.60.		
	_	Command for DCC Tools 2.52		
	-	Support for BCS Tools 3.52		
	_	New graphical design of System Web Page		
	•	Included support on System Web Page to set the PLC clock		
	_	(time/date) Removed the requirement of PLC in STOP to perform a		
	•	Removed the requirement of PLC in STOP to perform a		
		firmware update (now it will stop automatically) Included support to allow changing the Default Gateway of a		
AX	_	Included support to allow changing the Default Gateway of a network interface through SysSockSetDefaultGateway	1.12.29.0	05/09/2023
		Included support to identify the device through the "wink"		
	_	command on programming tool.		
		Improvement on the MQTT to support multi-level topics		
		wildcard ('#').		
		Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.51.		
	•	Improvements on System Web Page:		
	•	New Network tab, which now allows to change the IP		
		configuration and also re-introduces the embedded network		
		sniffer.		
	•	Login unification (now it will be requested only in the		
AW		Management tab). After the update, the credentials will be	1.12.23.0	22/06/2023
		reset to default.		
	-	Optimization in the time required to perform the firmware		
		update process.		
	-	Fixed OPC UA interoperability with Kepware.		
	-	Info: This version was built with CODESYS Control		
		Runtime Toolkit 3.5.17.40.		
	•	No modification in the product (production documentation	·	
AV		changed).	1.12.5.3	17/05/20203
AV	-	Info: This version was built with CODESYS Control	1.12.3.3	1 1/03/20203
		Runtime Toolkit 3.5.17.40.		
	•	Hardware improvement to suport new PHY component	·	
AU		(shortage issue)	1 10 5 2	05/04/2023
AU	-	Info: This version was built with CODESYS Control	1.12.5.3	03/04/2023
		Runtime Toolkit 3.5.17.40.		
۸Т	•	Fixed hardware problem where the power source does not	1 10 5 2	24/01/2022
AT		turn on when the bus is with full load.	1.12.5.3	24/01/2023
				•

	-	Info: This version was built with CODESYS Control		
	_	Runtime Toolkit 3.5.17.40.		
	• • •	Support for BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed the retain system to keep the values after a reboot		
AS	•	caused by an internal software error. Fixed potential exception when an application is removed (reset origin).	1.12.5.3	15/12/2022
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40.		
AR	•	In this revision there were only internal changes in the documentation. Info: This version was built with CODESYS Control	1.11.2.0	06/09/2022
		Runtime Toolkit 3.5.15.0.		
AQ	•	New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.11.2.0	26/07/2021
-		Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Improvements in "one touch diag" feature. Included support for PROFINET Controller. Info: This version was built with CODESYS Control	1.9.29.0	26/07/2021
		Runtime Toolkit 3.5.15.0.		
АР		Included support for "number of connected clients" diagnostic in status bar. To see this diagnostic, BCS Tools version 3.31 or greater is required. Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. Fixed a problem where the digital input value was not updated on the execution of external interrupt task. Fixed a problem of delay in PTO softstop command when using LibMachineOEM.LABELING_MACHINE function block. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.25.0	13/01/2021
AO	• •	Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.9.8.0	09/11//2020
AN	•	Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.	1.8.11.0	24/09/2020
AM	•	Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Ethernet/IP Adapter and Scanner. Included support for visualization of the integrated I/O by LCD (menu Hardware). Included support for labeling function of the LibMachineOEM library (PTO).	1.8.11.0	27/01/2020

	·	Improvements in the performance of integrated fast I/O. Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	InIn	approvements in the performance of serial communication. approvements in CPU diagnostic messages.		
AL	Cl iss du	cluded watchdog reset diagnostic on the CPU display. hanged bootloader from version 1.0.0.13 to 1.0.0.14 to fix an ue where the CPU could activate (drive) the RS-485 bus ring the power-up. fo: This version was built with CODESYS Control Runtime	1.7.36.0	11/06/2019
		olkit 3.5.12.60.		
AK	■ In	itial revision. fo: This version was built with CODESYS Control Runtime olkit 3.5.12.60.	1.7.20.0	01/04/2019

2.7 BCS-NX3004 - CPU 1 ETH, 1 SERIAL PORT - BJ

REV	Description	Version	Date
AZ	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AY	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.2	30/09/2024
AX	 Support for BCS Tools 3.61 Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. Limited the maximum number of OPC UA Server sessions to 50 Fixed error that could generate an exception when downloaded an Application with EtherCAT or PROFINET Improvement in the backup of retentive data of the Application Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.20.0	08/02/2024
AW	Support for BCS Tools 3.52	1.12.29.0	05/09/2023

	- Name and high desires of Govern W. J. D.		
	 New graphical design of System Web Page Included support on System Web Page to set the PLC clock 		
	 Included support on System Web Page to set the PLC clock (time/date) 		
	 Removed the requirement of PLC in STOP to perform a firmware 		
	update (now it will stop automatically)		
	 Included support to allow changing the Default Gateway of a 		
	network interface through SysSockSetDefaultGateway		
	Included support to identify the device through the "wink"		
	command on programming tool.		
	 Improvement on the MQTT to support multi-level topics wildcard 		
	('#').		
	 Support for BCS Tools 3.51. 		
	Improvements on System Web Page:		
	 New Network tab, which now allows to change the IP configuration 		
	and also re-introduces the embedded network sniffer.		
4.7.7	• Login unification (now it will be requested only in the Management	1 12 22 0	22/06/2022
AV	tab). After the update, the credentials will be reset to default.	1.12.23.0	22/06/2023
	 Optimization in the time required to perform the firmware update 		
	process.Fixed OPC UA interoperability with Kepware.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	Fixed a problem introduced on the previous version that was		
	making the retain/persistent variables not to be saved at the power		
AU	down.	1.12.5.6	24/01/2023
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	 Support for BCS Tools 3.40. 		
	 Fixed possible issue where the Web Page turns unaccesible after 		
	using it for a very long time.		
	• Fixed the retain system to keep the values after a reboot caused by		4.5.44.0.000
AT	an internal software error.	1.12.5.3	15/12/2022
	• Fixed potential exception when an application is removed (reset		
	origin). Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.17.40.		
	 Change of the product label, which now includes a QR Code with 		
	the path to the Technical Documentation of the product on the		
	website. This change makes it unnecessary to follow the Installation		
AS	Guide with the product.	1.11.2.0	01/11/2022
	 UKCA Certification marking included on product. 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	New format of firmware update file. This update requires the		
	controller running on firmware version 1.9.29.0 or greater.		
	 Added protection against CSRF (cross-site request forgery) for 		
AR	management pages in web interface. • Updated UL Mark adding cUL (Canada). Due to the process of	1.11.2.0	26/07/2021
АК	introduction on production line, this update may be present in some	1.11.∠.∪	20/01/2021
	units before this revision.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Changed firmware update mechanism to include support for the 		
	new file format that will be introduced on upcoming versions.		
	Improvements in "one touch diag" feature.	1.9.29.0	26/07/2021
_	 Included support for PROFINET Controller. 	1.2.47.0	20/07/2021
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	Included support for "number of connected clients" diagnostic in	10250	10/01/2000
AQ	status bar. To see this diagnostic, BCS Tools version 3.31 or greater	1.9.25.0	13/01/2021
	is required.		

	 Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This 		
	eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly.		
	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 		
AP	 Included support to TLS v1.2 and client certificate in the Function Block MQTT Client (the last one requires the BCS Tools 3.23 or greater). 	1.9.8.0	09/11/2020
AO	 Included protectors for the product connectors. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.8.11.0	24/09/2020
AN	 Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. Included support for Ethernet/IP Adapter and Scanner. Fixed an error that could occur when performing a specific sequence of modification of the size of Retain/Persistent %Q area. Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Fixed maximum number of ARTI/OPC DA connections from 4 to 8. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.8.11.0	27/01/2020
AM	 Included support for OPC UA protocol Included support for MSSQL_Client Function Block for accessing Microsoft databases. Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Fixed the position of F symbol (force) on LCD Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.17.0	11/03/2019
AL	 Improvements on factory test system Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.2.0	30/11/2018
AK	 This revision was skipped due to integration of internal documentation 	-	-
AJ	 Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.2.0	08/02/2018
AI	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.1.0	02/10/2017
AH	 Included support to clock settings. 	1.6.0.5	06/01/2017

	•	Included support to easy connection.		
	•	Included support to dynamic IP.		
	•	Included support to mixed analog module NJ6005.		
	•	Homologation of alternative part numbers for components used on		
		this product.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.8.10.		
AG	•	Enhancements in performance of the modules hot-swap circuit.	1.5.1.2	09/11/2016
	•	New revision of the printed circuit board.		
AF	•	Changed the product label to comply with the new revision of CE	1.5.1.2	21/06/2016
		directive.		
AE	•	Homologation of alternative part numbers for components used on	1.5.1.2	25/05/2016
AL		this product.	1.3.1.2	23/03/2010
	•	Included the support for flexibility of retain/persistent memory		
		areas.		
AD	•	Included the support for Nexto Jet solution.	1.5.1.2	18/12/2015
	•	Improvements on the presentation of module Tag on diagnostic web		
		page.		
	•	Included the support for SNMP (agent) protocol supporting MIBII		
AC		and Private.	1.5.0.21	01/09/2015
AC	•	Improvements on the UCP power down process and on data	1.3.0.21	01/09/2013
		retentivity.		
AB	•	Improvements on the handling of data retentivity.	1.5.0.18	15/06/2015
AA	•	Initial revision.	1.5.0.16	06/0652015

2.8 BCS-NX3005 - CPU 1 ETH, 1 SERIAL PORT, WEB - BJ

REV	Description	Version	Date
AV	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AU	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. Fixed a problem on WebVisu introduced on version 1.14.20.0 which could cause a PLC reset when downloading the application Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.2	30/09/2024
AT	 Support for BCS Tools 3.61 Improvements on System Web Page Changed the timezone of the Clock Setting to match the user's computer. Fixed error that could make the firewall rules not to be applied when the selected interfaces was "any" Fixed a problem related to the Trend Graphic of the WebVisu where the controller could restart if the Application use it Improved firmware update time Removed restriction of local network to perform a firmware update, now allowing to execute this operation remotely. 	1.14.20.0	08/02/2024

		L'air 1da an in an ann an CODO HA Carana in a 450		
		Limited the maximum number of OPC UA Server sessions to 50		
	_	Fixed error that could generate an exception when downloaded an Application with EtherCAT or PROFINET		
		Improvement in the backup of retentive data of the Application		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.18.60.		
		Support for BCS Tools 3.52		
		New graphical design of System Web Page		
		Included support on System Web Page to set the PLC clock		
		(time/date)		
	•	Removed the requirement of PLC in STOP to perform a firmware		
		update (now it will stop automatically)		
AS	•	Included support to allow changing the Default Gateway of a	1.12.29.0	05/09/2023
115		network interface through SysSockSetDefaultGateway	1.12.27.0	03/03/2023
	•	Included support to identify the device through the "wink"		
	_	command on programming tool.		
	•	Improvement on the MQTT to support multi-level topics wildcard		
		('#'). Info, This yearsion was built with CODESYS Control Duntime		
	_	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40.		
		Support for BCS Tools 3.51.		
		Improvements on System Web Page:		
		New Network tab, which now allows to change the IP		
		configuration and also re-introduces the embedded network		
		sniffer.		
	•	Login unification (now it will be requested only in the		
AR		Management tab). After the update, the credentials will be reset to	1.12.23.0	22/06/2023
		default.		
	•	Optimization in the time required to perform the firmware update		
	_	process.		
		Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime		
	_	Toolkit 3.5.17.40.		
		Fixed a problem introduced on the previous version that was		
		making the retain/persistent variables not to be saved at the power		
AQ		down.	1.12.5.6	24/01/2023
,	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.40.		
	•	Fixed possible issue where the Web Page turns unaccesible after		
		using it for a very long time.		
A.D.	•	Fixed the retain system to keep the values after a reboot caused by	1 10 5 2	15/10/2022
AP		an internal software error. Fixed potential exception when an application is removed (reset	1.12.5.3	15/12/2022
	_	origin).		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.17.40.		
	•	Change of the product label, which now includes a QR Code with		
		the path to the Technical Documentation of the product on the		
		website. This change makes it unnecessary to follow the		
AO		Installation Guide with the product.	1.11.2.0	03/11/2022
	-	UKCA Certification marking included on product.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	New format of firmware update file. This update requires the		
	_	controller running on firmware version 1.9.29.0 or greater.		
AN	•	Added protection against CSRF (cross-site request forgery) for	1.11.2.0	26/07/2021
		management pages in web interface. Info: This version was built with CODESYS Control Runtime		
	_	Toolkit 3.5.15.0.		
_	•	Changed firmware update mechanism to include support for the	1.9.29.0	26/07/2021
		Changed in inware update incentains in to include support for the	1.2.43.0	20/07/2021

		new file format that will be introduced on upcoming versions.		
	•	Improvements in "one touch diag" feature.		
	•	Included support for PROFINET Controller.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Updated UL Mark adding cUL (Canada). Due to the process of		
		introduction on production line, this update may be present in		
AM		some units before this revision.	1.9.25.0	26/07/2021
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Included support for "number of connected clients" diagnostic in		
		status bar. To see this diagnostic, BCS Tools version 3.31 or		
		greater is required.		
	•	Removed the hidden page "getlogs" from the system web page to		
		improve cyber security.		
AL	•	Fixed a problem related to the system webpage cache. This	1.9.25.0	13/01/2021
		eliminates the need of clearing the cache on browser side, which		
		was previously required under some circumstances to show the		
		page correctly.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
·	-	Included support to TLS v1.2 and client certificate in the Function		
		Block MQTT Client (the last one requires the BCS Tools 3.23 or		
AK		greater).	1.9.8.0	09/11/2020
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Included protectors for the product connectors.		
AJ	•	Info: This version was built with CODESYS Control Runtime	1.8.11.0	24/09/2020
		Toolkit 3.5.15.0.		
	•	Included support for MQTT Client Function Block (requires BCS		
		Tools 3.19 or greater).		
	•	Included support for the latest version of LibSQLClient library.		
	•	Fixed an error that could occur when performing a specific		
		sequence of modification of the size of Retain/Persistent %Q area.		
	•	Fixed EasyConnection behavior, where the application was not		
AI		being erased after applying the new IP adress, resulting on	1.8.11.0	27/01/2020
711		returning to the IP address set by the application.	1.0.11.0	27/01/2020
	•	Fixed maximum number of ARTI/OPC DA connections from 4 to		
		8.		
	•	General fixes on User Rights Management, which was not		
		working properly on version 1.7.x.x.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	-	Included support for OPC UA protocol		
	-	Included support for MSSQL_Client Function Block for		
		accessing Microsoft databases.		
	•	Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4)		
	-	Fixed the position of F symbol (force) on LCD		
	•	Improvements on Easy Connection feature		
. **	•	Fixed a problem on function GetTimeZone, which could cause an	15150	11/02/22:
AH		exception leading the CPU to STOP.	1.7.17.0	11/03/2019
	•	Improvements on GetDateAndTime and GetDayOfWeek		
		functions, which could cause peak on execution time.		
	•	Removed log message generated when the system time is updated		
		by SNTP (to avoid log being flooded with this message)		
	•	Improvements on SNMP protocol		
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.12.40.		
	-	Improvements on factory test system		
AG	-	Info: This version was built with CODESYS Control Runtime	1.6.2.0	30/11/2018
		Toolkit 3.5.8.10.		

AF	 Updated the product label for compliance of the UL certification, File Number E496087. Included the licence IEC-104 in the BOM of the product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.2.0	03/09/2018
AE	 Included support for NX9020 rack. Enhancements in SNMP protocol Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.2.0	08/02/2018
AD	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved support for NVLs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.1.0	02/10/2017
AC	 Included support to IEC104 server. Included support to mixed analog module NJ6005. Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.0.13	06/01/2017
AB	 Enhancements in performance of the modules hot-swap circuit. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.0.9	09/11/2016
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.8.10. 	1.6.0.9	08/09/2016

2.9 BCS-NX3008 - CPU 3 ETH, 1 USB, 1 SERIAL, 1 CAN, WEB - BJ

REV	Description	Version	Date
AT	 Included a new field in Overview tab of System Web Page informing the version of BCS Tools used by the application. Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.7	03/04/2025
AS	 Support for BCS Tools 3.63 Included support to the new diagnostic bNetDefinedByWeb (requires BCS Tools 3.63 or greater) Included support for NX8000 (mandatory to check the conditions on User Manual before using it) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.36.4	30/09/2024
AR	 Included bootloader version 1.0.5.0, which fixes a power-on issue mentioned below. The bootloader is now included inside the firmware image file, and it will be updated automatically during the firmware update process. ATTENTION: this automatic update requires the controller to be running with version 1.14.34.2 or greater. So, if the firmware update is being performed on a controller that is running an older version, it will be necessary to perform the update procedure twice (to the same version) to have the bootloader updated. Fixed a problem where the CPU could potentially fail to start after a power-on. Fixed a problem where the firmware version could not be informed correctly (zero). Fixed a problem with NET Redundant mode which could cause an exception. 	1.14.34.2	25/07/2024

	•	Fixed a problem that could incorrectly produce error log messages		
		related to the internal processor temperature.		
	•	Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option.		
		Improved stability of CAN and RS-485 communication, specially		
		when working simultaneously.		
	-	Info: This version was built with CODESYS Control Runtime Toolkit		
		3.5.18.60.		
		■ Fixed the CAN interface, which was not working properly on		
		previous versions.		
		• Fixed a problem where the internal RS-485 termination was		
		always turned on, independently of the setting selected on CPU		
		configuration screen. Improvements on System Web Page to enhance the reliability and		
		 Improvements on System Web Page to enhance the reliability and usability. 		
		 Fixed a problem on firmware update where the process could fail 		
		unexpectedly or take longer than expected.		
40		• Fixed a problem on Docker where the CPU could take too long to	1.14.28.0	02/05/2024
AQ		change from STOP to RUN after a startup.	1.14.28.0	02/03/2024
		• Fixed the DG LED behaviour when CPU has no application.		
		Fixed NET3 byOperatingState diagnostic when configured as a		
		redundant pair of NET2 (NIC Teaming).		
		 Fixed a problem where the OTD button could present a slow response. 		
		 Fixed a problem on OpenVPN where it could incorrectly show a 		
		valid certificate as invalid.		
		 Info: This version was built with CODESYS Control Runtime 		
		Toolkit 3.5.18.60.		
		■ Support for BCS Tools 3.61		
		 Included support for Docker feature 		
		Included support for FTP		
		Improvements on System Web Page Changed the timerane of the Clock Setting to match the		
		 Changed the timezone of the Clock Setting to match the user's computer. 		
		 Fixed error that could make the firewall rules not to be 		
		applied when the selected interfaces was "any"		
		• Fixed a problem related to the Trend Graphic of the WebVisu		
		where the controller could restart if the Application use it		
		Improved firmware update time		
		Removed restriction of local network to perform a firmware		
		 update, now allowing to execute this operation remotely. Fixed a problem on RS-485 termination where the setting on CPU 		
AP		configuration was behaving with a inverted logic	1.14.20.0	08/02/2024
		Fixed the red triangle on NET3 connector in the BCS Tools		
		treeview with the controller in NIC Teaming mode		
		■ Limited the maximum number of OPC UA Server sessions to 50		
		• Fixed error that could generate an exception when downloaded an		
		Application with EtherCAT or PROFINET		
		• Fixed a problem where the CPU could potentially fail to restore		
		retain data if turned off on a very specific and short time window during the initialization process		
		 Fixed an issue that could make the current Application of the 		
		device not to be erased when transfering a new Application		
		through the USB		
		 Info: This version was built with CODESYS Control Runtime 		
		Toolkit 3.5.18.60.		
		■ Support for BCS Tools 3.52		
		 New graphical design of System Web Page 		
AN		 Included support on System Web Page to set the PLC clock 	1.12.29.0	05/09/2023
		(time/date)		
		 Removed the requirement of PLC in STOP to perform a firmware 		

	update (now it will stop automatically)		
	 Included support to allow changing the Default Gateway of a 		
	network interface through SysSockSetDefaultGateway		
	Included support to identify the device through the "wink"		
	command on programming tool.		
	 Improvement on the MQTT to support multi-level topics wildcard 		
	('#').		
	 Included support for IEC 104 Server protocol (requires BCS) 		
	Tools 3.52 or greater).		
	 Included support to SNMP 		
	Fixed a problem that could potentially make the CPU fail to start		
	after a power-on		
	 Limited the speed of NET2 and NET3 to 10/100Mbps 		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	improved capacity of the integrated power supply to withstand		
	modules in-rush current on the power-on of a full bus		
43.5	configuration.	1 12 24 2	01/05/2022
AM	• Changed the product label due to certification cUL File Number	1.12.24.0	21/07/2023
	E496087, where the cUL logo was included.		
	• Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.17.40.		
	 Support for BCS Tools 3.51. 		
	Improvements on System Web Page:		
	 Included configuration for OpenVPN, Firewall and USB-Ethernet 		
	Adapter.		
	 New Network tab, which now allows to change the IP 		
	configuration and also re-introduces the embedded network		
	sniffer.		
	 Login unification (now it will be requested only in the 		
	Management tab). After the update, the credentials will be reset to		
	default.		
	 Optimization in the time required to perform the firmware update 		
AL	process.	1.12.24.0	21/06/2023
	 Fixed USB modem problem where the controller could suffer a 		
	memory leak when the modem reconnect multiple times.		
	Fixed interoperability problem where the Ethernet/IP stop to		
	communicate after inserting/configuring an USB modem.		
	Fixed OPC UA interoperability with Kepware.		
	 Improvements in OpenVPN and Firewall. 		
	Support to the RTL8188EU WiFi adapter. General improvements in the system stability.		
	General improvements in the system stability.		
	Info: This version was built with CODESYS Control Runtime Toolkit		
	3.5.17.40.		
	• Fixed an issue where the CPU would eventually not enter in RUN		
	after a power-on.		
	Improved the System Web Page to support only one login to the		
	Management tab instead of each feature with separate credentials.		
	Also, a new System tab is available, containing the firmware		
	update and buttons to access the system logs.		
	• Fixed OpenVPN problem that could cause a memory leak when		
	using it as the Gateway for the programming tool.		
AK	 Fixed RTC drift at high operation temperatures. 	1.12.15.0	10/03/2023
	■ Improved immunity against external electromagnetic		
	interferences.		
	• Fixed CAN diagnostics and RTR messages (when DLC is zero)		
	reception.		
	 Updated OPC UA Server operational limits to provide better 		
	interoperability with Clients.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.17.40.		
	100mm 0.0.17.10.		

-	 Included support for CODESYS MODBUS Master Serial and TCP. Fixed problem where the CPU would evetually not start after a power-on. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.53.0	12/01/2023
AJ	 Minor hardware improvements to fix an internal industrial problem. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	17/01/2023
AI	 Changed the product label to include CE and UK CA certifications. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	05/12/2022
АН	 Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	01/12/2022
AA-AG	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.51.0	21/10/2022

2.10 BCS-NX3010 - CPU 1 ETH, 2 SERIAL - BJ

REV	Description	Version	Date
BS	 Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.14.0	03/04/2025
BR	 Support for BCS Tools 3.70. Fixed a problem introduced on firmware 1.10.8.0 where the User Rights credentials could be corrupted, making it impossible to login into the controller again. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.12.0	30/11/2024
BQ	 Support for BCS Tools 3.61 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.7.0	08/02/2024
ВР	 Fixed a problem related to NX4010 diagnostics on the System Web Page that could cause an internal exception, leading the CPU to stop. Fixed a problem related to Ethernet communication that could cause an internal exception on some specific conditions, leading the CPU to stop. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.12.0	21/11/2023
ВО	 Support for BCS Tools 3.40. Fixed wrong "Factory Missing" log message. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.8.0	15/12/2022
BN	 Fixed the retain system to keep the values after a reboot caused by an internal software error. Fixed potential exception when an application is removed (reset origin). Change of the product label, which now includes a QR Code with 	1.9.4.0	19/10/2022

		the path to the Technical Documentation of the product on the		
		website. This change makes it unnecessary to follow the Installation		
	_	Guide with the product.		
	•	UKCA Certification marking included on product.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
	•	New format of firmware update file. This update requires the		
	_	controller running on firmware version 1.8.13.0 or greater.		
	_	Added protection against CSRF (cross-site request forgery) for		
BM		management pages in web interface.	1.9.1.0	26/07/2021
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	-	Changed firmware update mechanism to include support for the		
		new file format that will be introduced on upcoming versions.		
	-	Included fixed DNS server settings (8.8.8.8 and 8.8.4.4).	1.8.13.0	26/07/2021
	-	Improved NIC Teaming performance.	1.0.15.0	20/07/2021
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Updated UL Mark adding cUL (Canada). Due to the process of		
DI		introduction on production line, this update may be present in some	1 0 10 0	26/07/2021
BL	_	units before this revision. Info: This version was built with CODESYS Control Runtime	1.8.10.0	26/07/2021
	•	Toolkit 3.5.15.0.		
		Included support for PROFINET Controller.		
BK	-	Info: This version was built with CODESYS Control Runtime	1.8.10.0	21/05/2021
		Toolkit 3.5.15.0.		
	-	Included support for "number of connected clients" diagnostic in		
		status bar. To see this diagnostic, BCS Tools version 3.31 or greater		
		is required.		
BJ	-	Removed the hidden page "getlogs" from the system web page to	1.8.9.0	13/01/2021
		improve cyber security.		
	•	Info: This version was built with CODESYS Control Runtime		
	_	Toolkit 3.5.15.0.		
	•	Fixed a problem that was not allowing the CPU to go to RUN when the application name was different from the default "Application".		
		Fixed a problem related to the system webpage cache. This		
		eliminates the need of clearing the cache on browser side, which		
BI		was previously required under some circumstances to show the	1.8.8.0	24/09/2020
		page correctly.		
	•	Included protectors for the product connectors.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Included support to client certificate in the Function Block MQTT		
		Client (requires the BCS Tools 3.23 or greater).		
-	•	Fixed a problem that was not allowing to perform a firmware	1.8.6.0	05/06/2020
		update when the CPU had an application loaded. Info: This version was built with CODESYS Control Runtime		
	_	Toolkit 3.5.15.0.		
	•	Included support for MQTT Client Function Block (requires BCS		
		Tools 3.19 or greater).		
	-	Included support for the latest version of LibSQLClient library.		
рIJ	•	General fixes on User Rights Management, which was not working	1020	27/01/2020
ВН		properly on version 1.7.x.x.	1.8.3.0	27/01/2020
	-	Updated the RJ45 connector of the Ethernet interfaces.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed the copy from memory card to CPU.		
DE DC	•	Fixed EasyConnection behavior, where the application was not	17014	02/10/2010
BF-BG		being erased after applying the new IP address, resulting on	1.7.0.14	03/10/2019
		returning to the IP address set by the application. Included support for EtherNet/IP Scanner and Adapter		
	_	meraded support for Emeriveter Scanner and Adapter		

	 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 		
BE	 Improvement on Ethernet interface to avoid uncontrolled retransmission of ACK message on IP conflict scenarios, which could impact on CPU execution cycle. Fixed the LCD menu for copying application on Memory Card, which was missing since version 1.6.0.11. Fixed log message "Retain restore from file failed" that was incorrectly generated on power on. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.11	09/07/2019
BD	 Included support for OPC UA protocol Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Fixed treatment of I/O modules on breakpoint condition on projects using machine profile. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.8	11/03/2019
ВС	 Small text correction on Installation Guide Updated the product label for compliance of the UL certification, File Number E496087. 	1.6.1.3	15/01/2019
AS-BB	 These revisions were skipped due to integration of internal documentation Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	-	-
AR	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.1.3	02/10/2017
AQ	 Included support to IEC104 server. Included support to clock settings. Included support to easy connection. Included support to dynamic IP. Included support to mixed analog module NJ6005. Included support for MSSQL_Client Function Block for accessing Microsoft databases. Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.0.11	06/01/2017
AP	 Enhancement of factory test software. Components that belonged to a non-used circuit were removed to reduce the product's structure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.1.7	10/10/2016
AO	 Changed the product label to comply with the new revision of CE directive. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.1.7	08/06/2016
AN	 Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime 	1.5.1.7	01/06/2016

	Toolkit 3.5.3.50.		
AM	 Included SNTP diagnostics in MIB Private. Fixed possible exception when using projects with Basic profile. Included support for the additional option introduced on BCS Tools 2.05 that allows using Retain and Persistent variables on Function Blocks. Enhancements on EtherCAT protocol when used on situations with heavy traffic on other Ethernet ports. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.1.7	26/02/2016
AL	 Included support for I/O modules of the Nexto Jet solution. Included support for size flexibility of Retentive and Persistent memory areas. Fixed possible loss of system logs after a power failure. Changed web message in case firmware update failure when there are too many applications running. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.1.3	11/11/2015
AK	 Fixed a possible exception after performing hot-swap of modules on the local bus. Fixed a problem which causes exception after na online change in Symbol Configuration. Fixed a problem where the Retain and Persistent are intialized after an exception. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.0.15	04/08/2015
AJ	 Included the vital failure feature for NETs on projects with half-cluster redundancy. Included the support for new 8-position rack NX9000 on diagnostics of web page. Included the support for SNTP. Changed the maximum number of communication channels simultaneouly connected to CPU from 4 to 8. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.5.0.10	25/05/2015
AI	 Included the support for OPC protocol. Included the support for Application CRC feature. Included two new hot swap modes: Hot Swap Disabled and Hot Swap Enabled with startup consistency. Included the support for SNMP (agent) protocol supporting MIBII and Private. Included new system logs with userful information to help diagnosis and troubleshooting. System log is now retain (i.e, the log remains on memory even after restarting the CPU). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.3.50. 	1.4.0.33	24/09/2014
АН	 Fixed the synchronism of forced BIT variables on redundant systems. Included the support for NX6020 module. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.3.0.31	30/07/2014
AG	 Included the support for MODBUS Symbol drivers (Client/Server and Master/Slave RTU). Included the support for the library that provides User Log on Memory Card. Fixed the diagnostic indication in case of failure of the OTD key. Improvements on the Memory Card access. Improvement of CPU boot time. Included the support for NX6010 module. Info: This version was built with CODESYS Control Runtime 	1.3.0.22	09/01/2014

	Toolkit 3.4.4.20.		
	Trace diagnostic with quantities of system restart.		
	• Improvement of initialization time.		
	 Modified task priorities after RTS reset to keep the same behavior. 		
AF	 Improvement in bus scan time. 	1.2.4.0	30/09/2013
	 Improvemente and fixes in memory alocation. 	1.2	20/03/2012
	• Fixed the treatment of tasks that access the I/O simultaneously.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.4.4.20.		
	 Enhancement and fix in bus interruption treatment. 		
AE	 Enhancement in the communication bus. 	1.2.2.3	28/06/2013
AE	 Info: This version was built with CODESYS Control Runtime 	1.2.2.3	28/00/2013
	Toolkit 3.4.4.20.		
	 Changed the bill of materials to add the earthing spring holder. 		
AD	 Info: This version was built with CODESYS Control Runtime 	1.2.1.0	12/04/2013
	Toolkit 3.4.4.20.		
	RoHS compliant revision.		
	 Enhancement in bus interruption treatment. 		
AC	 Modified internal identification code in the firmware. 	1.2.1.0	22/01/2013
	• Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.4.4.20.		
	 Inclusion of module firmware version on web pages 		
	 Increased compatibility with some memory card models. 		
AB	• Fix in web presentation of architecture when used rack expansion.	1.2.0.9	30/10/2012
TID .	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.4.4.20.		
	Initial revision.		
AA	 Info: This version was built with CODESYS Control Runtime 	1.2.0.7	23/08/2012
	Toolkit 3.4.4.20.		
	1 001Kit 3.4.4.20.		

2.11 BCS-NX3020 - CPU 2 ETH, 2 SERIAL, RACK EXP. - BJ

REV	Description	Version	Date
BP	 Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.14.0	03/04/2025
во	 Support for BCS Tools 3.70. Fixed a problem introduced on firmware 1.10.8.0 where the User Rights credentials could be corrupted, making it impossible to login into the controller again. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.12.0	30/11/2024
BN	 Support for BCS Tools 3.61 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.7.0	08/02/2024
ВМ	 Fixed a problem related to NX4010 diagnostics on the System Web Page that could cause an internal exception, leading the CPU to stop. Fixed a problem related to Ethernet communication that could cause an internal exception on some specific conditions, leading the CPU to stop. Fixed OPC UA interoperability with Kepware. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.12.0	21/11/2023
BL	 Support for BCS Tools 3.40. Fixed wrong "Factory Missing" log message Info: This version was built with CODESYS Control Runtime Toolkit 3.5.17.40. 	1.10.8.0	15/12/2022
BK	• Fixed the retain system to keep the values after a reboot caused by	1.9.4.0	01/11/2022

	an internal software error.		
	 Fixed potential exception when an application is removed (reset origin). 		
	Fixed an exception that occurs when using DBP with its individual		
	elements ON/OFF mapped to MODBUS.		
	 Change of the product label, which now includes a QR Code with 		
	the path to the Technical Documentation of the product on the		
	website. This change makes it unnecessary to follow the Installation		
	Guide with the product. UKCA Certification marking included on product.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 In this revision there were only internal changes in the 		
BJ	documentation. Info: This version was built with CODESYS Control Runtime	1.9.1.0	05/04/2022
	Toolkit 3.5.15.0.		
	 New format of firmware update file. This update requires the 		
	controller running on firmware version 1.8.13.0 or greater.		
	 Added protection against CSRF (cross-site request forgery) for 		
DI	management pages in web interface.	1010	26/07/2021
BI	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some 	1.9.1.0	26/07/2021
	units before this revision.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	• Changed firmware update mechanism to include support for the		
	new file format that will be introduced on upcoming versions.		
-	 Included fixed DNS server settings (8.8.8.8 and 8.8.4.4). Improved NIC Teaming performance. 	1.8.13.0	26/07/2021
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	 Included support for PROFINET Controller. 		
BH	 Info: This version was built with CODESYS Control Runtime 	1.8.10.0	21/05/2021
	Toolkit 3.5.15.0.		
	 Included support for "number of connected clients" diagnostic in status bar. To see this diagnostic, BCS Tools version 3.31 or greater 		
	is required.		
BG	 Removed the hidden page "getlogs" from the system web page to 	1.8.9.0	13/01/2021
	improve cyber security.		
	 Info: This version was built with CODESYS Control Runtime 		
	Toolkit 3.5.15.0.		
	• Fixed a problem that was not allowing the CPU to go to RUN when the application name was different from the default "Application".		
	 Fixed a problem related to the system webpage cache. This 		
	eliminates the need of clearing the cache on browser side, which		
BF	was previously required under some circumstances to show the	1.8.8.0	24/09/2020
	page correctly.		
	Included protectors for the product connectors.		
	 Info: This version was built with CODESYS Control Runtime 		
<u> </u>	Toolkit 3.5.15.0. Updated the RJ45 connector of the Ethernet interfaces.		
BE	 Info: This version was built with CODESYS Control Runtime 	1.8.6.0	29/04/2020
	Toolkit 3.5.15.0.	2.0.0.0	
	 Included support to client certificate in the Function Block MQTT 		
	Client (requires the BCS Tools 3.23 or greater).		
-	• Fixed a problem that was not allowing to perform a firmware	1.8.6.0	05/06/2020
	update when the CPU had an application loaded. Info: This version was built with CODESYS Control Runtime		
	Toolkit 3.5.15.0.		
DD	 Included support for MQTT Client Function Block (requires BCS) 	1020	07/01/0000
BD	Tools 3.19 or greater).	1.8.3.0	27/01/2020

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				T I
	•	Included support for the latest version of LibSQLClient library.		
	•	General fixes on User Rights Management, which was not working		
		properly on version 1.7.x.x.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed the copy from memory card to CPU.		
	•	Fixed EasyConnection behavior, where the application was not		
BB-BC		being erased after applying the new IP adress, resulting on	1.7.0.14	03/10/2019
	_	returning to the IP address set by the application.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.12.60.		
	•	Improvement on Ethernet interface to avoid uncontrolled		
		retransmission of ACK message on IP conflict scenarios, which could impact on CPU execution cycle.		
		Fixed the LCD menu for copying application on Memory Card,		
BA	_	which was missing since version 1.6.0.11.	1.7.0.11	09/07/2019
DA		Fixed log message "Retain restore from file failed" that was	1.7.0.11	09/07/2019
		incorrectly generated on power on.		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.12.60.		
	•	Included support for OPC UA protocol		
		Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4)		
	•	Improvements on Easy Connection feature		
	•	Fixed a problem on function GetTimeZone, which could cause an		
		exception leading the CPU to STOP.		
AZ	•	Improvements on GetDateAndTime and GetDayOfWeek functions,	1.7.0.8	11/03/2019
		which could cause peak on execution time.		
	•	Fixed treatment of I/O modules on breakpoint condition on projects		
		using machine profile.		
	•	Removed log message generated when the system time is updated		
		by SNTP (to avoid log being flooded with this message)		
	•	Small text correction on Installation Guide		
4 3 7	•	Updated the product label for compliance of the UL certification,	1612	15/01/2010
AY	_	File Number E496087.	1.6.1.3	15/01/2019
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
AS-AX	•	These revisions were skipped due to integration of internal documentation	-	-
		Included the licence IEC-104 in the BOM of the product.		
AR		Info: This version was built with CODESYS Control Runtime	1.6.1.3	03/09/2018
7111		Toolkit 3.5.7.40.	1.0.1.5	03/07/2010
	•	Added new configuration options for MODBUS Symbolic mode		
		(Server and Slave);		
	•	Added return of Easy Execution command execution status;		
AQ	-	Including support for new Nexto Jet solution modules;	1.6.1.3	02/10/2017
	•	Improved Ethernet IP protocol;		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
	•	Included support to IEC104 server.		
	•	Included support to clock settings.		
	•	Included support to easy connection.		
	•	Included support to dynamic IP.		
A D	•	Included support for MSSOL Client Function Plack for accessing	16011	06/01/2017
AP	•	Included support for MSSQL_Client Function Block for accessing Microsoft databases.	1.6.0.11	06/01/2017
		Homologation of alternative part numbers for components used on		
	-	this product.		
		Info: This version was built with CODESYS Control Runtime		
	_	Toolkit 3.5.7.40.		
	•	Enhancement of factory test software.		
AO	•	Components that belonged to a non-used circuit were removed to	1.5.1.7	10/10/2016
1				l

		reduce the product's structure.		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
	•	Changed the product label to comply with the new revision of CE		
AN		directive.	1.5.1.7	08/06/2016
AIN	•	Info: This version was built with CODESYS Control Runtime	1.5.1.7	00/00/2010
		Toolkit 3.5.7.40.		
	•	Homologation of alternative part numbers for components used on		
AM		this product.	1.5.1.7	01/06/2016
1 11.1	•	Info: This version was built with CODESYS Control Runtime	1.0.11.7	01, 00, 2010
		Toolkit 3.5.7.40.		
	•	Included SNTP diagnostics in MIB Private.		
		Fixed possible exception when using projects with Basic profile.		
	•	Included support for the additional option introduced on BCS Tools		
AL		2.05 that allows using Retain and Persistent variables on Function Blocks.	1.5.1.7	26/02/2016
AL		Enhancements on EtherCAT protocol when used on situations with	1.3.1./	20/02/2016
	_	heavy traffic on other Ethernet ports.		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
		Included support for I/O modules of the Nexto Jet solution.		
	•	Included support for size flexibility of Retentive and Persistent		
		memory areas.		
AK	•	Fixed possible loss of system logs after a power failure.	1.5.1.3	11/11/2015
AK	-	Changed web message in case firmware update failure when there	1.3.1.3	11/11/2013
		are too many applications running.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
	•	Fixed a possible exception after performing hot-swap of modules		
		on the local bus.		
	•	Fixed a problem which causes exception after na online change in		
AJ	_	Symbol Configuration.	1.5.0.15	04/08/2015
	•	Fixed a problem where the Retain and Persistent are intialized after an exception.		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
	-	Included the vital failure feature for NETs on projects with half-		
		cluster redundancy.		
	-	Included the support for EtherCAT Master.		
	•	Included the support for new 8-position rack NX9000 on		
AI		diagnostics of web page.	1.5.0.10	25/05/2015
	•	Changed the maximum number of communication channels		
		simultaneouly connected to CPU from 4 to 8.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
		Included the support for OPC protocol.		
		Included the support for Application CRC feature. Included two new hot swap modes: Hot Swap Disabled and Hot		
	-	Swap Enabled with startup consistency.		
		Included the support for SNMP (agent) protocol supporting MIBII		
	_	and Private.		
AH		Included new system logs with userful information to help	1.4.0.33	24/09/2014
		diagnosis and troubleshooting.		
	•	System log is now retain (i.e, the log remains on memory even after		
		restarting the CPU).		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.7.40.		
	•	Fixed the synchronism of forced BIT variables on redundant		
AG		systems.	1.3.0.31	30/07/2014
AU	•	Included the support for NX6020 module.	1.3.0.31	30/07/2014
	•	Info: This version was built with CODESYS Control Runtime		

	Toolkit 3.4.4.20.		
AF	 Included the support for MODBUS Symbol drivers (Client/Server and Master/Slave RTU). Included the support for the library that provides User Log on Memory Card. Fixed the diagnostic indication in case of failure of the OTD key. Improvements on the Memory Card access. Improvement of CPU boot time. Included the support for NX6010 module. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.3.0.22	09/01/2014
AE	 Fixed diagnostic with quantities of system restart. Improvement of initialization time. Modified task priorities after RTS reset to keep the same behavior. Improvement in bus scan time. Improvemente and fixes in memory alocation. Fixed the treatment of tasks that access the I/O simultaneously. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.4.0	30/09/2013
AD	 Enhancement and fix in bus interruption treatment. Enhancement in the communication bus. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.2.3	28/06/2013
AC	 Changed the bill of materials to add the earthing spring holder. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	12/04/2013
AB	 RoHS compliant revision. Enhancement in bus interruption treatment. Modified internal identification code in the firmware. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	22/01/2013
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.0.9	23/08/2012

2.12 BCS-NX3030 - CPU 2 ETH, 2 SERIAL, RACK EXP, RED-BJ

REV	Description	Version	Date
BR	 Included support to a new part number of LCD display (no change in visual and/or functionality). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.14.0	03/04/2025
BQ	 Support for BCS Tools 3.70. Fixed a problem introduced on firmware 1.10.8.0 where the User Rights credentials could be corrupted, making it impossible to login into the controller again. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.12.0	30/11/2024
BP	 Support for BCS Tools 3.61 Info: This version was built with CODESYS Control Runtime Toolkit 3.5.18.60. 	1.14.7.0	08/02/2024
во	 Fixed a problem related to NX4010 diagnostics on the System Web Page that could cause an internal exception, leading the CPU to stop. Fixed a problem related to Ethernet communication that could cause an internal exception on some specific conditions, leading the CPU to stop. Fixed OPC UA interoperability with Kepware. Fixed project synchronization when using a custom application 	1.10.12.0	17/11/2023

		name.		
		Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.17.40.		
	•	Support for BCS Tools 3.40.		
BN	•	Fixed wrong "Factory Missing" log message	1.10.8.0	15/12/2022
DIN	-	Info: This version was built with CODESYS Control Runtime	1.10.8.0	15/12/2022
		Toolkit 3.5.17.40.		
	-	Fixed the redundancy project synchronization system when		
		downloading an application in a Stand-By CPU with the other still		
	_	in Active (an invalid operation).		
	•	Fixed the retain system to keep the values after a reboot caused by an internal software error.		
		Fixed potential exception when an application is removed (reset		
		origin).		
	-	Fixed an exception that occurs when using DBP with its individual		
BM		elements ON/OFF mapped to MODBUS.	1.9.4.0	01/11/2022
	-	Change of the product label, which now includes a QR Code with		
		the path to the Technical Documentation of the product on the		
		website. This change makes it unnecessary to follow the Installation		
		Guide with the product.		
	•	UKCA Certification marking included on product.		
	•	Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0.		
		New format of firmware update file. This update requires the		
		controller running on firmware version 1.8.13.0 or greater.		
	-	Added protection against CSRF (cross-site request forgery) for		
		management pages in web interface.		
BL	-	Updated UL Mark adding cUL (Canada). Due to the process of	1.9.1.0	26/07/2021
		introduction on production line, this update may be present in some		
		units before this revision.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0. Changed firmware update mechanism to include support for the		
	_	new file format that will be introduced on upcoming versions.		
	•	Included fixed DNS server settings (8.8.8.8 and 8.8.4.4).	10100	25/05/2024
-	-	Improved NIC Teaming performance.	1.8.13.0	26/07/2021
	-	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	-	Fixed the NX4010 redundancy diagnostics presentation on the Web		
DIZ		interface.	1 0 10 0	21/05/2021
BK		Included support for PROFINET Controller. Info: This version was built with CODESYS Control Runtime	1.8.10.0	21/05/2021
	-	Toolkit 3.5.15.0.		
		Included support for "number of connected clients" diagnostic in		
		status bar. To see this diagnostic, BCS Tools version 3.31 or greater		
		is required.		
BJ	•	Removed the hidden page "getlogs" from the system web page to	1.8.9.0	13/01/2021
		improve cyber security.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		
	•	Fixed the force diagnostic bForcedIOs, which was not being informed correctly on the stand-by PLC.		
		Fixed a problem that was not allowing the CPU to go to RUN when		
		the application name was different from the default "Application".		
		Fixed a problem related to the system webpage cache. This		
BI		eliminates the need of clearing the cache on browser side, which	1.8.8.0	24/09/2020
		was previously required under some circumstances to show the		
		page correctly.		
	•	Included protectors for the product connectors.		
	•	Info: This version was built with CODESYS Control Runtime		
		Toolkit 3.5.15.0.		

	- Undered the DIAS account of the Date of the C		
ВН	 Updated the RJ45 connector of the Ethernet interfaces. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.8.6.0	29/04/2020
-	 Included support to client certificate in the Function Block MQTT Client (requires the BCS Tools 3.23 or greater). Fixed a problem that was not allowing to perform a firmware update when the CPU had an application loaded. Fixed a problem introduced on the previous version which reduced the capability of the redundant system on tolerating an internal software failure in one of the CPUs. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.8.6.0	05/06/2020
BG	 Included support for MQTT Client Function Block (requires BCS Tools 3.19 or greater). Included support for the latest version of LibSQLClient library. General fixes on User Rights Management, which was not working properly on version 1.7.x.x. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.15.0. 	1.8.3.0	27/01/2020
BE-BF	 Fixed the copy from memory card to CPU. Fixed EasyConnection behavior, where the application was not being erased after applying the new IP adress, resulting on returning to the IP address set by the application. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.14	03/10/2019
BD	 Improvement on Ethernet interface to avoid uncontrolled retransmission of ACK message on IP conflict scenarios, which could impact on CPU execution cycle. Fixed the LCD menu for copying application on Memory Card, which was missing since version 1.6.0.11. Fixed log message "Retain restore from file failed" that was incorrectly generated on power on. Included support to the fix introduced on BCS Tools v3.14 for the error which could cause exception after a switchover of redundant PLC. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.11	09/07/2019
ВС	 Included support for OPC UA protocol Included a fixed DNS Server configuration (8.8.8.8 and 8.8.4.4) Improvements on Easy Connection feature Fixed a problem on function GetTimeZone, which could cause an exception leading the CPU to STOP. Improvements on GetDateAndTime and GetDayOfWeek functions, which could cause peak on execution time. Improvements on project synchonization between redundant PLCs Fixed treatment of I/O modules on breakpoint condition on projects using machine profile. Removed log message generated when the system time is updated by SNTP (to avoid log being flooded with this message) Info: This version was built with CODESYS Control Runtime Toolkit 3.5.12.60. 	1.7.0.8	11/03/2019
ВВ	 Small text correction on Installation Guide Updated the product label for compliance of the UL certification, File Number E496087. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.1.3	15/01/2019
AR-BA	 These revisions were skipped due to integration of internal documentation 	-	-
AQ	 Included the licence IEC-104 in the BOM of the product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.1.3	03/09/2018

Beijer Electronics AB

AP	 Added new configuration options for MODBUS Symbolic mode (Server and Slave); Added return of Easy Execution command execution status; Including support for new Nexto Jet solution modules; Improved Ethernet IP protocol; Improved synchronization of redundant projects; Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.1.3	02/10/2017
AO	 Included support to IEC104 server. Included support to clock settings. Included support to easy connection. Included support to dynamic IP. Included support to mixed analog module NJ6005. Included support for MSSQL_Client Function Block for accessing Microsoft databases. Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.6.0.11	06/01/2017
AN	 Enhancement of factory test software. Components that belonged to a non-used circuit were removed to reduce the product's structure. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	10/10/2016
AM	 Changed the product label to comply with the new revision of CE directive. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	08/06/2016
AL	 Homologation of alternative part numbers for components used on this product. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	01/06/2016
AK	 Included SNTP diagnostics in MIB Private. Fixed possible exception when using projects with Basic profile. Included support for the additional option introduced on BCS Tools 2.05 that allows using Retain and Persistent variables on Function Blocks. Enhancements on EtherCAT protocol when used on situations with heavy traffic on other Ethernet ports. Enhancements on handling of redundant variables forcing. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.7	26/02/2016
AJ	 Included support for I/O modules of the Nexto Jet solution. Included support for size flexibility of Retentive and Persistent memory areas. Fixed possible loss of system logs after a power failure. Changed web message in case firmware update failure when there are too many applications running. Incremented the maximum number of redundant areas from 100 to 1024. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.1.3	11/11/2015
AI	 Fixed a possible exception after performing hot-swap of modules on the local bus. Fixed forcing of variables on redundant system. Fixed a problem which causes exception after na online change in Symbol Configuration. Fixed a problem where the Retain and Persistent are intialized after an exception. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.0.15	04/08/2015

АН	 Included the vital failure feature for NETs on projects with half-cluster redundancy. Included the support for EtherCAT. Included the support for new 8-position rack NX9000 on diagnostics of web page. Included the support for. Changed the maximum number of communication channels simultaneouly connected to CPU from 4 to 8. Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.5.0.10	25/05/2015
AG	 Included the support for OPC protocol. Included the support for Application CRC feature. Included two new hot swap modes: Hot Swap Disabled and Hot Swap Enabled with startup consistency. Included the support for SNMP (agent) protocol supporting MIBII and Private. Included new system logs with userful information to help diagnosis and troubleshooting. System log is now retain (i.e, the log remains on memory even after restarting the CPU). Info: This version was built with CODESYS Control Runtime Toolkit 3.5.7.40. 	1.4.0.33	29/09/2014
AF	 Fixed the synchronism of forced BIT variables on redundant systems. Included the support for NX6020 module. 	1.3.0.31	30/07/2014
AE	 Included the support for MODBUS Symbol drivers (Client/Server and Master/Slave RTU). Included the support for the library that provides User Log on Memory Card. Fixed the diagnostic indication in case of failure of the OTD key. Improvements on the Memory Card access. Improvement of CPU boot time. Included the support for NX6010 module. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.3.0.22	09/01/2014
AD	 Fixed diagnostic with quantities of system restart. Improvement of initialization time. Modified task priorities after RTS reset to keep the same behavior. Improvement in bus scan time. Improvemente and fixes in memory alocation. Fixed the treatment of tasks that access the I/O simultaneously. Fixed project synchronization after a restart of standby PLC. Fixed the timout to synchronize the project. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.4.0	30/09/2013
AC	 Enhancement and fix in bus interruption treatment. Enhancement in the communication bus. Fix in the redundant project synchronism. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.2.3	28/06/2013
AB	 Changed the bill of materials to add the earthing spring holder. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	12/04/2013
AA	 Initial revision. Info: This version was built with CODESYS Control Runtime Toolkit 3.4.4.20. 	1.2.1.0	22/01/2013

2.13 BCS-NX8000 - 30W 24VDC PSU - BJ

REV	Description	Version	Date
AQ	 Minor hardware changes in order to improve the product. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	NΙΛ	01/12/2022
AP	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	NA	26/07/2021
AO	Updated the product label for compliance of the UL certification, File Number E496087.	NA	04/06/2020
AK-AN	 These revisions were skipped due to integration of internal documentation 	-	-
AJ	This new product revision is related to the change in the overlay material.	NA	12/09/2018
AI	 Homologation of alternative part numbers for components used on this product. 	NA	19/12/2016
AH	 Changed the product label to comply with the new revision of CE directive. 	NA	22/09/2016
AG	 Enhancement on test system for test of NX3004. 	NA	30/12/2015
AF	 Enhancement on test system to improve detection of module interference on WSDE line (rack number). 	NA	17/06/2014
AE	Changed the maintenance procedure.	NA	20/05/2014
AD	 Changed the bill of materials to add the earthing sping holder. 	NA	12/04/2013
AC	RoHS compliant revision.	NA	22/01/2013
AB	 Label printed using a new printer. 	NA	30/10/2012
AA	 Initial revision. 	NA	31/08/2012

Date(dd/mm/yyyy): 10/06/2025

2.14 BCS-NX1005 - 24 VDC 8 DOT/8 DI MIXED MODULE - BJ

REV	Description	Version	Date
AL	• Minor improvement in the external mechanics of the product, without significant impact.	1.2.0.7	22/03/2022
AK	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.2.0.7	26/07/2021
AJ	Updated the product label for compliance of the UL certification, File Number E496087.	1.2.0.7	24/06/2020
AI	• Changes in the source code shared with other products that doesn't affect the behaviour of this product.	1.2.0.7	15/08/2017
АН	 Enhancement in factory process. Changed the product label to comply with the new revision of CE directive. 	1.2.0.4	31/08/2016
AG	 Homologation of alternative part numbers for components used on this product. 	1.2.0.4	14/06/2016
AF	 Impovements in the Factory Test system. 	1.2.0.4	28/10/2015
AE	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.4	12/06/2014
AD	 Fixed the use of External Event on operating modes 2,3 and 4. 	1.1.0.3	15/08/2013
AC	 Changed the bill of materials to add the earthing spring holder. 	1.1.0.1	12/04/2013
AB	 RoHS compliant revision. 	1.1.0.1	09/02/2013
AA	Initial revision.	1.0.0.0	24/10/2012

2.15 BCS-NX1001 - 24 VDC 16 DI MODULE - BJ

REV	Description	Version	Date
AO	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.20	12/04/2023
AN	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.20	22/03/2022
AM	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.20	26/07/2021
AL	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.2.0.20	24/06/2020
AK	Changes in the test system for including new product.Changes the time of Burn In.	1.2.0.20	15/08/2017
AJ	 Enhancements for reducing the threshold voltage of internal voltage regulator. 	1.2.0.20	01/02/2017
AI	 Enhancement in factory process. Changed the product label to comply with the new revision of CE directive. 	1.2.0.20	31/08/2016
AH	 Homologation of alternative part numbers for components used on this product. 	1.2.0.20	14/06/2016
AG	 Improve the performance of the input update time. Fixed the support of filters for the inputs of Group 1. 	1.2.0.20	28/10/2015
AF	Approval on EtherCAT Conformance Test.Included the support for operation with Xtorm Series.	1.2.0.3	13/06/2014
AE	• Fixed the use of External Event on operating modes 2,3 and 4.	1.1.0.2	15/08/2013
AD	 Changed the bill of materials to added the the earthing sping holder. 	1.1.0.1	12/04/2013
AC	 RoHS compliant revision. 	1.1.0.1	14/02/2013
AB	■ Changed the PCI – revision B.	1.0.0.9	30/10/2012
AA	Initial revision.	1.0.0.0	21/08/2012

2.16 BCS-NX6000 - 8 AI VOLTAGE/CURRENT MODULE - BJ

REV	Description	Version	Date
BD	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.4.0.0	27/07/2023
ВС	 Minor changes in the product hardware to implement improvements. Document was changed to a new EM model, where it was included the AM (Modification Analysis) chapter and the RT's became an annex of the document to enhancements on documentation for internal control. 	1.4.0.0	13/06/2023
ВВ	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.4.0.0	02/12/2022
BA	 Minor improvement in the external mechanics of the product, without significant impact. 	1.4.0.0	22/03/2022
AZ	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.4.0.0	26/07/2021
AY	 Included support for the new option "Disabled" for the parameter "Open Loop Value". 	1.4.0.0	03/09/2019
AX	■ This new product revision is related to test system modifications for	1.3.0.7	05/12/2018

	including other module in test system.		
AR-AW	These revisions were skipped due to integration of internal		
	documentation	-	=
AQ	 This new product revision is related to the change in the product overlay 	1.3.0.7	24/04/2018
710	to fix the opening of the display window.	1.5.0.7	2 1/0 1/2010
AP	■ Enhancements of diagnostics detection of analog inputs.	1.3.0.7	15/02/2018
	Enhancements in detection of loss of bus master.		
AO	This new product revision is related to test system modifications for	1.3.0.3	15/09/2017
4 3 7	including other module in test system.	1.0.0.0	10/00/2016
AN	Enhancements on immunity against electromagnetic interference.	1.3.0.3	10/08/2016
AM	• Changed the product label to comply with the new revision of CE	1.3.01	08/06/2016
	directive.	1.0.0.1	12/05/2016
AL	Enhancement in factory process.	1.3.0.1	13/05/2016
AK	 Homologation of alternative part numbers for components used on this 	1.3.0.1	11/05/2016
	product.		4 5 /4 4 /2 0 4 7
AJ	Enhancements on the protection circuit of analog inputs.	1.3.0.1	16/11/2015
	■ Enhancements on the calibration process of the module (performed		
AI	during factory test). Addition of a new scale +-5Vdc.	1.3.0.1	03/11/2015
	 Addition of a new scale +-5 vdc. Enhancements on the configuration process of the module. 		
	 Enhancements on the calibration process of the analog channels 		
AH	(performed during factory test).	1.2.0.6	03/12/14
	Approval on EtherCAT Conformance Test.		
AG	 Included the support for operation with Xtorm Series. 	1.2.0.4	05/06/14
AF	 Enhancements in the assembly instructions. 	1.0.1.8	28/05/14
AE	■ Enhancements in the Factory Test procedure.	1.0.1.8	14/03/14
	Changed the bill of materials.		
AD	• Changes the software version to improve the behavior of hot swap,	1.0.1.8	12/07/2013
	callibration process and reset operations.		
AC	Changed the bill of materials to add earthing sping holder.	1.0.1.2	26/04/2013
A D	RoHS compliant revision.	1012	21/02/2012
AB	 Changed the EtherCAT vendor ID. 	1.0.1.2	21/02/2013
AA	Initial revision.	1.0.0.14	24/10/2012

2.17 BCS-NX6010 - 8 AI THERMOCOUPLE MODULE - BJ

REV	Description	Version	Date
AR	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.0.0.16	27/07/2023
AQ	 Minor changes in the product hardware to implement improvements. Document was changed to a new EM model, where it was included the AM (Modification Analysis) chapter and the RT's became an annex of the document to enhancements on documentation for internal control. 	1.0.0.16	19/06/2023
AP	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.0.0.16	12/04/2023
AO	■ Enhancements on immunity against electromagnetic interference.	1.0.0.16	10/05/2022
AN	 Minor improvement in the external mechanics of the product, without significant impact. 	1.0.0.14	22/03/2022
AM	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.0.0.14	29/07/2021
AJ-AL	These revisions were skipped due to integration of internal documentation	-	-

AI	•	Changes in the scope of the source to add the BCS NJ6011 module	1.0.0.14	17/04/2018
АН	•	Enhancements on the calibration process of the module (performed during factory test).	1.0.0.13	15/09/2017
AG	•	Additional enhancements on immunity against electromagnetic interference.	1.0.0.11	10/08/2016
AF	-	Enhancements on immunity against electromagnetic interference. Changed the product label to comply with the new revision of CE directive.	1.0.0.9	08/07/2016
AE	•	Enhancement in factory process.	1.0.0.6	13/05/2016
AD	•	Homologation of alternative part numbers for components used on this product.	1.0.0.6	11/05/2016
AC		 Enchancements on the calibration process of the module (performed during factory test). Approval on EtherCAT Conformance Test. 	1.0.0.6	03/11/2015
AB		 Enhancement on the module's calibration procedure during production process. 	1.0.0.5	03/12/2014
AA		Initial revision.	1.0.0.4	12/06/2014

2.18 BCS-NX6020 - 8 AI RTD MODULE - BJ

REV	Description	Version	Date
AP	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.1.0.8	27/07/2023
AO	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 		18/04/2023
AN	 Minor improvement in the external mechanics of the product without significant impact. 	1.1.0.8	22/03/2022
AM	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.1.0.8	29/07/2021
AL	 Support for the new hardware revision which introduces additiona improvements to immunity against electromagnetic interferences. 	1.1.0.8	29/09/2020
AK	 Updated the product label for compliance of the UL certification File Number E496087 	1.1.0.3	24/06/2020
AJ	 This revision was skipped due to integration of internal documentation 	-	-
AI	 This new product revision is related to the change in the product overlay to fix the opening of the display window. 	1.1.0.3	24/04/2018
AH	 This new product revision is related to modifications for including other module in test system. 	1.1.0.3	15/09/2017
AG	This new product revision refers to the new revision of the from label of the product, in which the indication of A next to the identification (BCS-NX6020 A) has been added so that it conforms to the standard of the Nexto Series. In addition, the Burn In time was changed.	1.1.0.3	08/05/2017
AF	 Improved immunity against electromagnetic interferences. 	1.1.0.3	13/01/2017
AE	 Changed the product label to comply with the new revision of CE directive. 	1.1.0.1	20/05/2016
AD	 Homologation of alternative part numbers for components used or this product. 	1.1.0.1	18/05/2016
AC	 Addition of a new scale of 10kΩ. 	1.1.0.1	03/11/2015
AB	 Fixed the display treatment for unsigned modules. Fixed the OTD button test on factory test mode. Enhancement on the module's reconfiguration after communication 	1.0.0.3	15/05/2014

		loss.		
AA	-	Initial revision.	1.0.0.0	21/02/2014

2.19 BCS-NX2001 - 24 VDC 16 DO TRANSISTOR MODULE - BJ

REV	Description	Version	Date
AP	 Included support for new parameter "Output behavior when CPU is in STOP" (requires BCS Tools 3.75 or greater). 	1.2.0.10	03/04/2025
AO	No modification in the product (production documentation changed)	1.2.0.8	31/01/2024
AN	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product.	1.2.0.8	04/05/2023
AM	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.8	16/12/2021
AL	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.2.0.8	26/07/2021
AK	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.2.0.8	24/06/2020
AJ	 This revision was skipped due to integration of internal documentation 	-	-
AI	 Changes in the test system for including new product. Changes the time of Burn In. 	1.2.0.8	15/08/2017
AH	 Enhancements for reducing the threshold voltage of internal voltage regulator. 	1.2.0.8	17/02/2017
AG	 Enhancement in factory process. Changed the product label to comply with the new revision of CE directive. 	1.2.0.8	31/08/2016
AF	 Homologation of alternative part numbers for components used on this product. 	1.2.0.8	07/06/2016
AE	 Improved the performance of the output update time. 	1.2.0.8	28/10/2015
AD	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.3	16/06/2014
AC	 Included Graunding Clip Holder. 	1.0.1.1	12/04/2013
AB	 RoHS compliant revision. 	1.0.1.1	14/02/2013
AA	Initial revision.	1.0.0.0	24/10/2012

2.20 BCS-NX2020 - 16 DO RELAY MODULE - BJ

REV	Description	Version	Date
AM	Updating the documentation of the packaging procedure, which changed the internal code used and adaptation in the packaging assembly.	1.2.0.3	15/01/2025
AL	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.3	04/09/2023
AK	Integration of internal documentation		
AJ	Changes in the test system for including new product.Changes the time of Burn In.	1.2.0.3	15/08/2017
AI	Enhancements for reducing the threshold voltage of internal voltage regulator.	1.2.0.3	17/02/2017
AH	Enhancement in factory process.	1.2.0.3	31/08/2016
AG	Changed the product label to comply with the new revision of CE directive.	1.2.0.3	08/06/2016

AF	•	Homologation of alternative part numbers for components used on this product.	1.2.0.3	07/06/2016
AE	-	Impovements in the Factory Test system.	1.2.0.3	28/10/2015
AD		Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series.	1.2.0.3	23/06/2014
AC	•	Included Graunding Clip Holder.	1.0.1.1	12/04/2013
AB	•	RoHS compliant revision.	1.0.1.1	14/02/2013
AA	•	Initial revision.	1.0.0.0	24/10/2012

2.21 BCS-NX6100 - 4 AO VOLTAGE/CURRENT MODULE - BJ

REV	Description	Version	Date
AX	small changes in the product's hardware to remove decoupling capacitors that were inserted in the last revision of the product, but do not need to be mounted on the printed circuit board.	1.2.0.9	22/02/23
AV	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.9	02/01/2023
AU	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.9	22/03/2022
AT	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.9	26/07/2021
AS	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.2.0.9	24/06/2020
AO-AR	 These revisions were skipped due to integration of internal documentation 	-	-
AN	 This new product revision is related to modifications for including other module in test system. 	1.2.0.9	25/09/2017
AM	 This new product revision is related the inclusion in news part numbers for internal codes with same electrical characteristics and with RoHS compliance. 	1.2.0.9	05/10/2016
AL	 Changed the product label to comply with the new revision of CE directive. 	1.2.0.9	11/07/2016
AK	 Enhancement in factory process. 	1.2.0.9	13/05/2016
AJ	 Homologation of alternative part numbers for components used on this product. 	1.2.0.9	11/05/2016
AI	Enhancements on hot swap.	1.2.0.9	27/01/2016
АН	 Enchancements on the calibration process of the module (performed during factory test). 	1.2.0.7	03/11/2015
AG	 Enhancements on the calibration process of the analog channels (performed during factory test). 	1.2.0.5	03/12/2014
AF	 Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series. 	1.2.0.4	12/06/2014
AE	 Included the support for new hardware revision. 	1.0.1.5	13/03/2014
AD	 Improvements on hot-swap logic. Improvements on module reconfiguration logic after a project download. 	1.0.1.3	03/06/2013
AC	 Changed the bill of materials to add the earthing sping holder. 	1.0.1.1	12/04/2013
AB	RoHS compliant revision.	1.0.1.1	21/02/2013
AA	Initial revision.	1.0.0.13	24/10/2012

2.22 BCS-NX4000 - BUS EXPANSION MODULE - BJ

REV Description	Version	Date

AP	•	Improved stability of power-on under specific conditions.	1.1.0.7	29/11/2021
AO	•	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.1.0.7	30/07/2021
AN	•	Included protectors for the product connectors.	1.1.0.7	24/09/2020
AM	•	Updated the product label for compliance of the UL certification, File Number E496087.	1.1.0.7	04/06/2020
AJ-AL	•	These revisions were skipped due to integration of internal documentation	-	-
AI	•	Changed the product label to comply with the new revision of CE directive.	1.1.0.7	31/08/2016
АН	•	Homologation of alternative part numbers for components used on this product.	1.1.0.7	20/06/2016
AG	•	Improvements on module startup.	1.1.0.7	25/01/2016
AF		Approval on EtherCAT Conformance Test. Included the support for operation with Xtorm Series.	1.1.0.5	26/06/2014
AE	•	Improvements on Factory Test system.	1.1.0.2	11/11/2013
AD	•	Improvements in the hardware revision.	1.1.0.2	12/08/2013
AC	•	Enhancement in the LCD test during start up. Enhancement in the OTD function of the factory test. Enhancement during start up of local diagnostics.	1.1.0.2	09/07/2013
AB	•	RoHS compliant revision.	1.1.0.0	12/04/2013
AA	•	Initial revision.	1.1.0.0	21/02/2013

2.23 BCS-NX4010 - REDUNDANCY LINK MODULE - BJ

REV	Description	Version	Date
AP	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.0.17	08/02/2023
AO	In this revision there were only internal changes in the documentation.	1.0.17	02/08/2022
AN	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.0.17	30/07/2021
AM	 Included protectors for the product connectors. 	1.0.1.7	24/09/2020
AL	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.0.1.7	04/06/2020
AG-AK	 These revisions were skipped due to integration of internal documentation 	-	-
AF	 Changed the product label to comply with the new revision of CE directive. 	1.0.1.7	08/06/2016
AE	 Homologation of alternative part numbers for components used on this product. 	1.0.1.7	07/06/2016
AD	 Enhancements on test software 	1.0.1.7	05/02/2016
AC	 Approval on EtherCAT Conformance Test. 	1.0.1.7	16/06/2014
AB	 Changed the bill of materials to include the ground spring holder. 	1.0.1.0	12/04/2013
AA	Initial revision.	1.0.1.0	28/01/2013

2.24 BCS-NX9000 - 8-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AG	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		26/07/2021
AF	■ Included the Left/Right Side Rack Ends in the product structure.	NA	11/11/2020

AE	 Updated the product label for compliance of the UL certification, File Number E496087 	NA	06/02/2018
AD	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.		26/06/2017
AC	• Enhancements on factory test system to improve fault detection coverage.	NA	01/08/2016
AB	 Changed the product label to comply with the new revision of CE directive. 	NA	13/06/2016
AA	 Initial revision. 	NA	31/07/2015

2.25 BCS-NX9001 - 12-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AR	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	26/07/2021
AQ	 Included the Left/Right Side Rack Ends in the product structure. 	NA	11/11/2020
AK-AP	 These revisions were skipped due to integration of internal documentation 	-	-
AJ	 Updated the product label for compliance of the UL certification, File Number E496087 	NA	06/02/2018
AI	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.	NA	26/06/2017
AH	 Enhancements on factory test system to improve fault detection coverage. 	NA	01/08/2016
AG	 Changed the product label to comply with the new revision of CE directive. 	NA	13/06/2016
AF	 Enhancement in factory process. 	NA	23/03/2016
AE	 Impovements on the package (included a plastic bag). 	NA	09/12/2014
AD	 Impovements on the Factory Test system. 	NA	22/01/2014
AC	Impovements on the package.RoHS compliant revision.	NA	14/03/2013
AB	Label printed using a new printer.	NA	30/10/2012
AA	Initial revision.	NA	21/08/2012

2.26 BCS-NX9002 - 16-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
AT	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	NA	30/07/2021
AS	■ Included the Left/Right Side Rack Ends in the product structure	NA	11/11/2020
AR	Updated the product label for compliance of the UL certification, File Number E496087	NA	04/06/2020
AI-AQ	■ These revisions were skipped due to integration of internal documentation	-	-
АН	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.	NA	26/06/2017
AG	 Enhancements on factory test system to improve fault detection coverage. 	NA	01/08/2016
AF	• Changed the product label to comply with the new revision of CE directive.	NA	02/07/2016
AE	■ Enhancement in document of the subassembly.	NA	23/03/2016
AD	 Impovements on the package (included a plastic bag). 	NA	09/12/2014

AC	-	Impovements on the Factory Test system.	NA	22/01/2014
AB	•	Impovements on the package. RoHS compliant revision.	NA	14/03/2013
AA	•	Initial revision.	NA	24/10/2012

2.27 BCS-NX9003 - 24-SLOT BACKPLANE RACK - BJ

REV	Description	Version	Date
АТ	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	03/08/2021
AS	■ Included the Left/Right Side Rack Ends in the product structure.	NA	11/11/2020
AJ-AR	■ These revisions were skipped due to integration of internal documentation	-	-
AI	Updated the product label for compliance of the UL certification, File Number E496087	NA	17/04/2018
АН	This new product revision refers to the withdrawn of the Burn In step from the production process. In addition, the Left/Right Side Rack Ends has been removed from the product structure.	NA	26/06/2017
AG	Enhancements on factory test system to improve fault detection coverage.	NA	01/08/2016
AF	Changed the product label to comply with the new revision of CE directive.	NA	05/07/2016
AE	■ Enhancement in document of the subassembly.	NA	23/03/2016
AD	 Impovements on the package (included a plastic bag). 	NA	09/12/2014
AC	■ Impovements on the Factory Test system.	NA	22/02/2014
AB	Impovements on the package.RoHS compliant revision.	NA	26/04/2013
AA	■ Initial revision.	NA	24/10/2012

2.28 BCS-NX9010 - 8-SLOT BACKPL. RACK (NO HOTSWAP)-BJ

REV	Description	Version	Date
AF	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		02/08/2021
AE	 Included the Left/Right Side Rack Ends in the product structure. 	NA	11/11/2020
AD	Updated the product label for compliance of the UL certification, File Number E496087	NA	06/02/2018
AC	 This new product revision refers to the withdrawn of the steps of Burn In and Coating from the production process. 	NA	26/06/2017
AB	Changed the product label to comply with the new revision of CE directive.	NA	17/11/2016
AA	Initial revision.	NA	31/07/2015

2.29 BCS-NX9020 - 2-SLOT MOUNTING PANEL - BJ

REV	Description	Version	Date
AD	 Updated the product label for compliance of the cUL certification File Number E496087. 	NA	01/08/2023
AC	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 		20/06/2023

AB	■ Inte	egration of internal documentation.	NA	29/05/2019
AA	■ Init	tial revision.	NA	10/07/2018

2.30 BCS-NX9100 - LEFT/RIGHT SIDE RACK ENDS - BJ

REV	Descrip	otion	Version	Date
AE	•	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.		11/08/2021
AD		This revision was skipped due to integration of internal documentation	-	-
AC	•	Updated the product label for compliance of the UL certification, File Number E496087 Simplification of the production process	NA	26/03/2018
AB	•	Changed the product label to comply with the new revision of CE directive.	NA	05/07/2016
AA		Initial revision.	NA	15/03/2013

2.31 BCS-NX9101 - 32GB MICROSDHC WITH MINISD ADAP - BJ

REV	Description	Version	Date
AC	■ Changed from 8GB to 32GB	NA	21/11/2018
AB	 Updating of the documentation of the packaging procedure, which changed the internal code of the label used. Updating of the product label for compliance of the new version of the CE standard. 	NΔ	23/01/2018
AA	 Initial revision. 	NA	21/11/2013

2.32 BCS-NX9102 - BACKPLANE CONNECTOR COVER - BJ

REV	Description	Version	Date
AJ	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	NA	26/07/2021
AI	 This revision was skipped due to integration of internal documentation 	-	-
АН	Updated the product label for compliance of the UL certification, File Number E496087.	NA	23/01/2019
AE-AG	 These revisions were skipped due to integration of internal documentation 	-	-
AD	 Updating of the documentation of the packaging procedure, which changed the internal code of the label used. 	NA	23/01/2018
AC	 Changed the product label to comply with the new revision of CE directive. 	NA	13/06/2016
AB	 Changed color of the packet label to gray. 	NA	06/08/2013
AA	 Initial revision. 	NA	31/10/2012

2.33 BCS-NX9401 - 6-TERMINAL CONNECTOR - BJ

REV	Description		Date
AD	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		11/08/2021

AC	•	This revision was skipped due to integration of internal documentation.	-	-
AB	•	Updating of the product label for compliance of the new version of the CE standard. Updating of the documentation of the packaging procedure, which changed the internal code of the label used.	NA	10/01/2018
AA	•	Initial revision.	NA	21/11/2013

2.34 BCS-NX9402 - 10-TERM. CONNECTOR WIRE HOLDER - BJ

REV	Description		Version	Date
AB	the CE standard.	et label for compliance of the new version of nentation of the packaging procedure, which de of the label used.	NΔ	11/01/2018
AA	Initial revision.		NA	05/08/2013

2.35 BCS-NX9403 - 20-TERM. CONNECTOR WIRE HOLDER - BJ

REV	Description	Version	Date
AD	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 		11/08/2021
AC	 This revision was skipped due to integration of internal documentation. 	-	-
AB	 Updating of the product label for compliance of the new version of the CE standard. Updating of the documentation of the packaging procedure, which changed the internal code of the label used. 	NA	10/01/2018
AA	Initial revision.	NA	05/08/2013

2.36 BCS-NX9404 - 06-TERM.CONNECTOR SCREW FIXING - BJ

REV	Description	Version	Date
AE	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	NA	11/08/2021
AD	 This revision was skipped due to integration of internal documentation. 	-	-
AC	 Updating of the documentation of the packaging procedure, which changed the internal code of the label used. 	NA	23/01/2018
AB	 Changed the product label to comply with the new revision of CE directive. 	NA	05/07/2016
AA	 Initial revision. 	NA	05/06/2014

2.37 BCS-NX9405 - 12-TERMINAL CONNECTOR SCREW FIXING - BJ

REV	Description	Version	Date
AA	Initial revision.	NA	17/07/2018

2.38 BCS-NX9406 - 18-TERMINAL CONNECTOR SCREW FIXING - BJ

REV	Description	Version	Date
AB	 Enhancements on internal documentation. 	NA	04/09/2023

AA Initial revision. NA 17/07/2018
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2.39 BCS-NX5001 - PROFIBUS DP MASTER MODULE - BJ

REV	Descrip	otion	Version	Date
BB	•	Improvement in the power system related to In-rush current.	1.3.0.6	10/02/2025
BA	•	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product.		24/02/2023
AZ	•	introduction on production line, this update may be present in some units before this revision.		30/07/2021
AY	•	 Fixed a problem where the diagnostic that informs the slave presence (abySlv_State[x]) could not indicate correctly the absence of the slave on the network when the project has a large number of slaves. 		16/11/2020
AX	-	Included protectors for the product connectors.	1.3.0.5	24/09/2020
AW	-	Updated the internal code of the flash memory of the product.	1.3.0.5	19/07/2019
AV	•	PROFIBUS Certification.	1.3.0.5	01/07/2019
AK-AU	•			-
AJ	•	 Updated the product label for compliance of the UL certification, File Number E496087. 		11/06/2018
AI	-			10/05/2017
АН	•			22/09/2016
AG	•			20/06/2016
AF	-	Included the support for Scan for Devices feature.	1.3.0.2	15/01/2016
AE	 Included the support for DPV1 commands: Read Request and Write Request. Included the support to synchronize input data and output-data of DP-Slaves (Global Control Commands: Freeze/Unfreeze/Sync/Unsync). Included the support to new Project Profile called "Machine Profile". Enhancements on configuration process of NX5001 during the startup. 		1.2.0.6	22/07/2015
AD	•	Approval on EtherCAT Conformance Test.	1.1.1.4	13/06/2014
AB	•	RoHS compliant revison.	1.1.1.1	31/01/2013
AA		Initial revision.	1.1.0.16	24/10/2012

2.40 BCS-NX5000 - ETHERNET MODULE - BJ

REV	Description		Date
AV	 Improvement in the power system related to In-rush current. 		10/02/2025
AU	 Fixed a problem on closing TCP/IP connections which could cause sporadic communication failures. 		02/10/2024
AT	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 		18/10/2023

AS	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.		1.2.0.3	30/07/2021
AR	•	Included protectors for the product connectors.	1.2.0.3	24/09/2020
AQ	•	File Number E496087.		19/07/2019
AJ - AP	 These revisions were skipped due to integration of internal documentation. 		-	-
AI	-	Changed burn-in time performed on manufacutring process.	1.2.0.3	05/10/2017
AH		Changed the product label to comply with the new revision of CE directive.	1.2.0.3	22/09/2016
AG		 Homologation of alternative part numbers for components used on this product. 		20/06/2016
AF	• Fixed a compatibility issue of NIC Teaming functionality with the Ethernet module of AL Series model AL-3414.		1.2.0.3	25/01/2016
AE	-	Added support to project profile "Machine Profile".	1.2.0.1	23/07/2015
AD	•	Approval on EtherCAT Conformance Test.	1.0.1.4	12/06/2014
AB	•	RoHS compliant revision.	1.0.1.1	31/01/2013
AA	-	Initial revision.	1.0.0.10	24/10/2012

2.41 BCS-NX5110 - PROFIBUS DP HEAD - BJ

REV	Description	Version	Date
BA	 Updated product subassembly document due to approval of alternative component PN due to market unavailability. 	1.2.3.2	19/05/2025
AZ	 Included support to a new part number of LCD display (no change in visual and/or functionality). 	1.2.3.2	03/04/2025
AY	This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product.	1.2.3.0	15/10/2024
AX	 Support for new modules NX6014 and NX6134 (only analog I/O functionality, HART over PROFIBUS is not available yet). 	1.2.3.0	21/11/2023
AW	 Updated the product label that was changed to contain a QR Code and a link to its technical documentation and also to include UKCA certification. 	1.2.0.0	16/11/2023
AV	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.0	26/07/2021
-	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. 		26/07/2021
AU	Removed the hidden page "getlogs" from the system web page to improve cyber security.		13/01/2021
AT	 Included protectors for the product connectors. 	1.1.2.8	24/09/2020
AS	 Fixed a problem introduced on previous version related to diagnostic indication. 	1.1.2.8	01/07/2019
AR	PROFIBUS Certification.	1.1.2.7	08/04/2019
AQ	 Included support for Nexto Safety modules. Updated the product label for compliance of the UL certification, File Number E496087. 	1.1.2.5	12/02/2019
AN-AP	 These revisions were skipped due to integration of internal documentation. 		-
AM	 Changed burn-in time performed on manufacutring process. 	1.1.1.16	05/10/2017
AL	 Homologation of alternative part numbers for components used on 	1.1.1.16	11/01/2017

	this product.		
AK	 Enhancements in performance of the modules hot-swap circuit. 	1.1.1.16	13/12/2016
AJ	 New revision of the PCB due to increase the power supply's performance (hot swap when in redundant mode). Changed the product label to comply with the new revision of CE directive. 		06/09/2016
AI	 Homologation of alternative part numbers for components used on this product. 	1.1.1.16	25/05/2016
АН	 Included support for Nexto Jet solution for modules BCS-NJ1001, BCS-NJ2001, BCS-NJ6000, BCS-NJ6010, BCS-NJ6020 and BCS-NJ6100. Fixed a compatibility issue with PROFIBUS Master from AL Series AL-3406 	1.1.1.16	15/01/2016
AG	 Included support for Scan Devices feature. Included support for NX9010 rack. 	1.1.0.6	15/09/2015
AF	 Enhancements on the safe state of analog output channels. 	1.0.0.25	06/05/2015
AE	 Enhancements on configuration process of I/O modules during the startup. 		29/01/2015
AD	■ Included support for NX9999 e NX9000.	1.0.0.12	15/12/2014
AA	 Initial revision. 	1.0.0.0	10/10/2014

2.42 BCS-NX5210 - REDUNDANT PROFIBUS DP HEAD - BJ

REV	Description	Version	Date
AY	 Updated product subassembly document due to approvalernative component PN due to market unavailability 		19/05/2025
AW	 Included support to a new part number of LCD displain visual and/or functionality). 	ay (no change 1.2.3.2	03/04/2025
AV	 This new product revision refers to changes documentation, in which similar products were chang not affect this product 	ed, which did 1.2.3.0	10/01/2025
AU	 Support for new modules NX6014 and NX6134 (on functionality, HART over PROFIBUS is not available 	yet).	21/11/2023
AT	 Updated the product subassembly document due to the an alternative PN of the component (00.960 SFCS302405C from the manufacturer Cosel and for of special formatting instructions for this component. 	0.143-0) PN: 1.200	06/09/2023
AS	 Change of the product label, which now includes a C the path to the Technical Documentation of the product. UKCA Certification marking included on product. 	oduct on the	04/09/2023
AR	 New format of firmware update file. This update required controller running on firmware version 1.9.29.0 or gree. Added protection against CSRF (cross-site request for management pages in web interface. Updated UL Mark adding cUL (Canada). Due to the printroduction on production line, this update may be preducted by the production of the printroduction. 	ater. gery) for 1.2.0.0 rocess of esent in some	26/07/2021
-	 Changed firmware update mechanism to include supporting the format that will be introduced on upcoming via 	ersions.	26/07/2021
AQ	 Removed the hidden page "getlogs" from the system improve cyber security. 	1.1.2.10	13/01/2021
AP	 Included protectors for the product connectors. 	1.1.2.8	24/09/2020
AO	 Fixed a problem introduced on previous version related diagnostic indication. 	1.1.2.8	01/07/2019
AN	 PROFIBUS Certification. 	1.1.2.7	08/04/2019
AM	 Included support for Nexto Safety modules. Updated the product label for compliance of the UL 	certification, 1.1.2.5	12/01/2019

	File Number E496087.		
	• Change in the product overlay to fix the opening of the	display	
	window.		
AK-AL	These revisions were skipped due to integration of	internal _	_
	documentation.		
AJ	 Changed burn-in time performed on manufacutring process. 	1.1.1.16	05/10/2017
ΑI	 Homologation of alternative part numbers for components 	used on 1.1.1.16	11/01/2017
Al	this product.	1.1.1.10	11/01/2017
AH	 Enhancements in performance of the modules hot-swap circumstance. 	uit. 1.1.1.16	13/12/2016
AG	 Changed the product label to comply with the new revision 	n of CE 1.1.1.16	23/09/2016
AG	directive.	1.1.1.10	23/09/2010
AF	 Homologation of alternative part numbers for components 	used on 1.1.1.16	25/05/2016
АГ	this product.	1.1.1.10	23/03/2010
	 Included support for Nexto Jet solution for modules BCS-NJ 	1001,	
	BCS-NJ2001, BCS-NJ6000, BCS-NJ6010, BCS-NJ6020 and	d BCS-	
AE	NJ6100.	1.1.1.16	15/01/2016
AL	 Fixed a compatibility issue with PROFIBUS Master from Al 	L 1.1.1.10	13/01/2010
	Series AL-3406		
	 Enhancements on the redundancy feature. 		
AD	 Included support for Scan Devices feature. 	1.1.0.6	15/09/2015
AD	 Included support for NX9010 rack. 	1.1.0.0	13/09/2013
AC	 Enhancements on the safe state of analog output channels. 	1.0.0.25	06/05/2015
	 Enhancements on configuration process of I/O modules duri 	ng the	
AB	startup.	1.0.0.15	29/01/2015
	 Enhancements to the network redundancy algorithm. 		
AA	 Initial revision. 	1.0.0.12	15/12/2014

2.43 BCS-NX5100 - MODBUS TCP HEAD - BJ

REV	Description	Version	Date
AQ	 Included support to a new part number of LCD display (no change in visual and/or functionality). Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. 	1.14.36.7	03/04/2025
AP	 Support for BCS Tools 3.61 	1.14.20.0	14/02/2024
AO	Support for BCS Tools 3.52New graphical design of System Web Page	1.12.29.0	05/09/2023
AN	 Updated the product label for compliance of the UL certification, File Number E496087. 	1.12.23.0	01/08/2023
AM	 Improvements on System Web Page: New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. 	1.12.23.0	22/06/2023
AL	 No modification in the product (production documentation changed). 	1.12.5.3	30/05/2023
AK	 Support for BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed potential exception when an application is removed (reset 	1.12.5.3	15/12/2022

		origin).		
AJ		 Minor improvement in the production process. Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.11.2.0	28/11/2022
AI		 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.11.2.0	26/07/2021
-		 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Improvements in "one touch diag" feature. 	1.9.29.0	26/07/2021
АН		 Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. 	1.9.25.0	13/01/2021
AG	•	Included protectors for the product connectors.	1.8.11.0	24/09/2020
AF	•	Fixed maximum number of ARTI/OPC DA connections from 4 to 8.	1.8.11.0	09/01/2020
AE		Changes in the source code shared with other controllers, which doesn't affect the behaviour of this product.	1.7.17.0	11/03/2019
AD		 This revision was skipped due to integration of internal documentation 	-	=
AC	-	Oficial revision after conclusion of the development.	1.0.0.5	29/06/2017
AA-AB	-	Initial revision.	1.0.0.1	09/05/2017

2.44 BCS-NX5101 - MODBUS TCP HEAD, 14 DI, 10 DOT (NO HOTSWAP) - BJ

REV	Description	Version	Date
AN	 Included support to a new part number of LCD display (no change in visual and/or functionality). Improvements on System Web Page to enhance the reliability and usability. Fixed a problem which would prevent the communication between BCS Tools and CPU when using "enforced encryption" option. Fixed a problem on firmware update where the process could fail unexpectedly or take longer than expected. 	1.14.36.7	03/04/2025
AM	 Support for BCS Tools 3.61 	1.14.20.0	08/02/2024
AL	 Support for BCS Tools 3.52 New graphical design of System Web Page 	1.12.29.0	05/09/2023
AK	 Improvements on System Web Page: New Network tab, which now allows to change the IP configuration and also re-introduces the embedded network sniffer. Login unification (now it will be requested only in the Management tab). After the update, the credentials will be reset to default. Optimization in the time required to perform the firmware update process. 	1.12.23.0	22/06/2023
AJ	 No modification in the product (production documentation changed). 	1.12.5.3	19/05/2023

AI	 Hardware improvement to suport new PHY component (shortage issue) 	1.12.5.3	05/04/2023
АН	 Fixed hardware problem where the power source does not turn on when the bus is with full load. 	1.12.5.3	24/01/2023
AG	 Support for BCS Tools 3.40. Fixed possible issue where the Web Page turns unaccesible after using it for a very long time. Fixed potential exception when an application is removed (reset origin). 	1.12.5.3	15/12/2022
AF	 New format of firmware update file. This update requires the controller running on firmware version 1.9.29.0 or greater. Added protection against CSRF (cross-site request forgery) for management pages in web interface. 	1.11.2.0	26/07/2021
ı	 Changed firmware update mechanism to include support for the new file format that will be introduced on upcoming versions. Improvements in "one touch diag" feature. 	1.9.29.0	26/07/2021
AE	 Removed the hidden page "getlogs" from the system web page to improve cyber security. Fixed a problem related to the system webpage cache. This eliminates the need of clearing the cache on browser side, which was previously required under some circumstances to show the page correctly. 	1.9.25.0	13/01/2021
AD	 Included support for visualization of the integrated I/O by LCD (menu Hardware). Fixed "wrong slot" problem related to the usage of the NX9020 rack. Fixed the problem where the Web page don't update its elements properly. 	1.9.8.0	09/11/2020
AC	 Included protectors for the product connectors. 	1.7.9.0	24/09/2020
AB	 Changed bootloader from version 1.0.0.13 to 1.0.0.14 due to code sharing with CPU, but with no functional modification on this product since it dont have RS-485 interface. 	1.7.9.0	06/11/2019
AA	 Initial revision. 	1.7.9.0	04/02/2019

2.45 BCS-NJ1001 - 24 VDC 16 DI MODULE NEXTO JET - BJ

REV		Description	Version	Date
AM		Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product.	1.2.0.20	23/01/23
AL	•	UKCA Certification marking included on product.	1.2.0.20	14/10/2022
AK	•	Minor improvement in the external mechanics of the product, without significant impact.	1.2.0.20	16/11/21
AG-AJ	•	These Reviews were ignored due to the integration of internal documentation	-	-
AF	•	Inclusion of the Installation Guide in the product BOM. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.E496087	1.2.0.20	17/05/2018
AE		Changes in the test system for including new product. Changes the time of Burn In.	1.2.0.20	15/08/2017
AD	•	Enhancement in factory process.	1.2.0.20	31/08/2016
AC	•	Changed the product label to comply with the new revision of CE directive.	1.2.0.20	06/06/2016
AB	•	Homologation of alternative part numbers for components used on this product.	1.2.0.20	19/05/2016
AA	•	Initial revision.	1.2.0.20	16/10/2015

2.46 BCS-NJ1005 - 24 VDC 8 DOT/8 DI MIXED MODULE NEXTO JET - BJ

REV	Description	Version	Date
AE	 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. 	1.2.0.7	18/05/2023
AD	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.7	14/04/2023
AC	 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.7	22/03/2022
AB	 Integration of internal documentation. 	1.2.0.7	15/05/2020
AA	■ Initial revision.	1.2.0.7	15/08/2017

Date(dd/mm/yyyy): 10/06/2025

2.47 BCS-NJ2001 - 24 VDC 16 DO TRANSISTOR MODULE NEXTO JET -BJ

REV		Description	Version	Date
AL		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.8	01/03/23
AK	•	Minor improvement in the external mechanics of the product, without significant impact.	1.2.0.8	16/12/2021
AH-AJ	•	These revisions were skipped due to integration of internal documentation.	-	-
AG	•	Inclusion of the Installation Guide in the product BOM. Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.E496087	1.2.0.8	17/05/2018
AF	•	Changes in the test system for including new product. Changes the time of Burn In.	1.2.0.8	15/08/2017
AE	•	This new review of the product is related to improvements in the production process. Due to the inclusion of universal pallets in the assembly.	1.2.0.8	17/10/2016
AD	•	Enhancement in factory process.	1.2.0.8	31/08/2016
AC	•	Changed the product label to comply with the new revision of CE directive.	1.2.0.8	06/06/2016
AB	•	Homologation of alternative part numbers for components used on this product.	1.2.0.8	19/05/2016
AA	•	Initial revision.	1.2.0.8	16/10/2015

2.48 BCS-NJ6000 - 8 AI VOLTAGE/CURRENT MODULE NEXTO JET - BJ

REV	Description	Version	Date
AP	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 		27/07/2023
AO	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 		13/06/2023
AN	Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product.	1.4.0.0	17/04/2023

	UKCA Certification marking included on product.		
AM	 Minor improvement in the external mechanics of the product, without significant impact. 	1.4.0.0	16/12/2021
AL	 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.4.0.0	29/07/2021
AK	 Enhancement in factory process. 	1.4.0.0	06/05/2020
AJ	 Included support for the new option "Disabled" for the parameter "Open Loop Value". 	1.4.0.0	03/09/2019
AI	Small text correction on Installation Guide	1.3.0.7	06/12/2018
АН	 Enhancements of diagnostics detection of analog inputs. Enhancements in detection of loss of bus master. Inclusion of the Installation Guide in the product BOM. Updated the product label for compliance of the UL certification, File Number E496087. 	1.3.0.7	15/02/2018
AG	This new product revision is related to modifications for including other module in test system.	1.3.0.3	15/09/2017
AF	■ Enhancements on immunity against electromagnetic interference.	1.3.0.3	10/08/2016
AE	 Changed the product label to comply with the new revision of CE directive. 	1.3.0.1	31/05/2016
AD	Enhancement in factory process.	1.3.0.1	13/05/2016
AC	 Homologation of alternative part numbers for components used on this product. 	1.3.0.1	11/05/2016
AB	Hardware enhancements.	1.3.0.1	16/11/2015
AA	■ Initial revision.	1.3.0.1	24/09/2015

2.49 BCS-NJ6001 - 6 AI V/I MODULE NEXTO JET 12 BITS - BJ

REV		Description	Version	Date
AI		 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. 	1.1.0.1	10/05/2023
АН		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.1	19/12/2022
AG	•	Minor improvement in the external mechanics of the product, without significant impact.	1.1.0.1	22/03/2022
AF	-	Enhancement in factory process.	1.1.0.1	15/05/2020
AE	•	Included support for 4-20 scale and for the new parameter "Open Circuit Value".	1.1.0.1	03/09/2019
AB-AD	•	These revisions were skipped due to integration of internal documentation.	-	-
AA	•	Initial revision.	1.0.0.14	08/05/2018

2.50 BCS-NJ6005 - 6 Al/4 AO V/I MIXED MODULE NEXTO JET - BJ

REV		Description	Version	Date
AN		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.1	19/01/2023
AM	•	Minor improvement in the external mechanics of the product, without significant impact.	1.1.0.1	22/03/2022

AL	•	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.1.0.1	30/07/2021
AK	•	Enhancement in factory process.	1.1.0.1	15/05/2020
AJ	•	Included support for 4-20 scale and for the new parameter "Open Circuit Value".	1.1.0.1	03/09/2019
AB-AI	-	These revisions were skipped due to integration of internal documentation.	-	-
AA	•	Initial revision.	1.0.0.14	08/05/2018

2.51 BCS-NJ6010 - 8 AI THERMOCOUPLE MODULE NEXTO JET - BJ

REV		Description	Version	Date
AP	•	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.0.0.16	27/07/2023
AO	•	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.0.0.16	19/06/2023
AN	•	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.0.0.16	12/04/2023
AM	-	Enhancements on immunity against electromagnetic interference.	1.0.0.16	26/10/2022
AL	•	Minor improvement in the external mechanics of the product, without significant impact.	1.0.0.14	22/03/2022
AK		Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.0.0.14	30/07/2021
AJ	-	Enhancement in factory process.	1.0.0.14	15/05/2020
AI		Change in the firmware source code to add a new module (BCS-NJ6011) on compilation scope. Inclusion of the Installation Guide in the product BOM. Updated the product label for compliance of the UL certification, File Number E496087	1.0.0.14	17/05/2018
AH	•	This new product revision is related to modifications for including other module in test system.	1.0.0.13	15/09/2017
AG	•	Additional enhancements on immunity against electromagnetic interference.	1.0.0.11	10/08/2016
AF	-	Enhancements on immunity against electromagnetic interference.	1.0.0.9	08/07/2016
AE	•	Changed the product label to comply with the new revision of CE directive.	1.0.0.6	20/05/2016
AD	•	Enhancement in factory process.	1.0.0.6	13/05/2016
AC	•	Homologation of alternative part numbers for components used on this product.	1.0.0.6	11/05/2016
AB	•	Hardware enhancements.	1.0.0.6	30/11/2015
AA	•	Initial revision.	1.0.0.6	25/09/2015

2.52 BCS-NJ6011 - MIXED ANALOG MODULE NEXTO JET - BJ

REV	Description	Version	Date
AJ	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.0.0.16	27/07/2023
AI	 This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current. 	1.0.0.16	20/06/2023
AH	■ This new product revision refers to changes in internal	1.0.0.16	16/05/2023

	documentation, in which similar products were changed, which did not affect this product.		
AG	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.0.0.16	12/04/2023
AF	■ Enhancements on immunity against electromagnetic interference.	1.0.0.16	26/10/2022
AE	 Minor improvement in the external mechanics of the product, without significant impact. 	1.0.0.14	22/03/2022
AD	Enhancement in factory process.	1.0.0.14	15/05/2020
AB-AC	 These revisions were skipped due to integration of internal documentation. 	-	-
AA	Initial revision.	1.0.0.14	08/05/2018

2.53 BCS-NJ6020 - 8 AI RTD MODULE NEXTO JET - BJ

REV		Description	Version	Date
AO	•	This new product revision refers to the minor changes in the product hardware to implement improvements related to the inrush current.	1.1.0.8	27/07/2023
AN		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.8	18/04/2023
AM		 This new product revision refers to changes in internal documentation, in which similar products were changed, which did not affect this product. 	1.1.0.8	06/01/2022
AL	-	Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision.	1.1.0.8	29/07/2021
AK	•	Support for the new hardware revision which introduces additional improvements to immunity against electromagnetic interferences.	1.1.0.8	29/09/2020
AJ	•	Integration of internal documentation.	1.1.0.3	24/06/2020
AI	:	Small text correction on Installation Guide Updated the product label for compliance of the UL certification, File Number E496087.	1.1.0.3	06/12/2018
AH	-	This revision was skipped due to integration of internal documentation.	-	-
AG	•	Inclusion of the Installation Guide in the product BOM.	1.1.0.3	17/05/2018
AF	•	Changes in the test system for including new product. Changes the time of Burn In.	1.1.0.3	15/09/2017
AE	•	Improved immunity against electromagnetic interferences.	1.1.0.3	13/01/2017
AD	•	Changed the product label to comply with the new revision of CE directive.	1.1.0.1	11/07/2016
AC	•	Homologation of alternative part numbers for components used on this product.	1.1.0.1	18/05/2016
AB	•	Hardware enhancements.	1.1.0.1	29/01/2016
AA	•	Initial revision.	1.1.0.1	31/07/2015

2.54 BCS-NJ6100 - 4 AO VOLTAGE/CURRENT MODULE NEXTO JET - BJ

REV	Description	Version	Date
AO	small changes in the product's hardware to remove decoupling capacitors that were inserted in the last revision of the product,	1.2.0.9	22/02/2023

	1	1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1		1
		but do not need to be mounted on the printed circuit board.		
AN		 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.2.0.9	02/01/2023
AM		 Minor improvement in the external mechanics of the product, without significant impact. 	1.2.0.9	22/03/2022
AL		 Updated UL Mark adding cUL (Canada). Due to the process of introduction on production line, this update may be present in some units before this revision. 	1.2.0.9	26/07/2021
AK		 Enhancement in factory process. 	1.2.0.9	15/05/2020
AJ		Small text correction on Installation Guide	1.2.0.9	10/12/2018
AI		 Inclusion of the Installation Guide in the product BOM. Updated the product label for compliance of the UL certification, File Number E496087. 	1.2.0.9	17/05/2018
АН		Changes in the test system for including new product.Changes the time of Burn In.	1.2.0.9	15/09/2017
AG		This new product revision is related the inclusion in news part numbers for internal codes with same electrical characteristics and with RoHS compliance.	1.2.0.9	05/10/2016
AF	-	Changed the product label to comply with the new revision of CE directive.	1.2.0.9	22/07/2016
AE	•	Enhancement in factory process.	1.2.0.9	13/05/2016
AD	•	Homologation of alternative part numbers for components used on this product.	1.2.0.9	11/05/2016
AC	•	Internal firmware modifications, with no impact on product functionalities.	1.2.0.9	27/01/2016
AB	•	Hardware enhancements.	1.2.0.7	20/11/2015
AA	•	Initial revision.	1.2.0.7	13/07/2015

2.55 BCS-NJ6101 - 4 AO V/I MODULE NEXTO JET 12 BITS - BJ

REV	Description	Version	Date
AI	 Change of the product label, which now includes a QR Code with the path to the Technical Documentation of the product on the website. This change makes it unnecessary to follow the Installation Guide with the product. UKCA Certification marking included on product. 	1.1.0.1	14/04/2023
AH	 Minor improvement in the external mechanics of the product, without significant impact. 	1.1.0.1	22/03/2022
AG	 Enhancement in factory process. 	1.1.0.1	15/05/2020
AF	■ Included support for 4-20 scale.	1.1.0.1	03/09/2019
AB-AE	 These revisions were skipped due to integration of internal documentation. 	-	-
AA	Initial revision.	1.0.0.14	08/05//2018

2.56 GSD Files - PROFIBUS DP HEAD NX OEM

REV		Description	Scope	Version	Date
AB	•	Included new scales for NX6000 and NX6020 modules. Included the file ALNJ0EDD.GSD, with support for the I/O Modules of Nexto Jet solution.	GSD	1.0.1.4	08/12/2015
AA	•	Initial revision.	GSD	1.0.0.0	10/09/2015

3. BCS Tools Series

3.1 BCS-MT8500/ADV - BCS-MT8500/LITE - BCS-MT8500/PRO - BCS-MT8500/BASIC - BCS-MT8500/BIG

REV	Description	Version	Date
ВН	 Fixed a problem introduced on version 3.51 where the Project Update would cause an unintended modification in redundant areas (Special_Variables_Redundant GVL), preventing the non-active PLC to get into Stand-by state after a download with project synchronization disabled. Fixed configuration issues with GT-3C74, GT-3C78, GT-3C94, and GT-3C98 modules in the Distributed IO Configurator. Changed the default MainTask interval to 100ms for NX CPUs. Changed the messages during Project Update and Firmware Version check to inform the user about the conditions and consequences of an update, helping to avoid unnecessary modifications and interruptions to the control system. Changed the default option of "Enable diagnosis for devices" in the PLC Settings to Disabled (it was enabled in version 3.40). Info: This version was built with CODESYS Development System 3.5.18.60. 	3.71	24/03/2025
BG	 Added support for "Codesys Control Win V3 x64" (demo mode only). Added official support for SparkPlugB Library. Added new screen which shows the memory consumption on projects with NX and XP CPUs (Device/MemoryConsumption). Added support for GT-224F, GT-227F, GT-2378, GT-2438, GT-3C74, GT-3C94, GT-3C78, GT-3C98, GT-4334, GT-4354, and GT-4374 modules on Distributed IO Configurator. Changed to enable the 'Write Complete PDO Configuration' checkbox in the CANOpen configurator. Updated the BSD Device Configurator to change the STRUCT and library to remove 8-bit datatype variables. Updated the CFC package to enhance performance in the refactoring feature. Fixed an internal error in BCS Tools that occurred during project updates when an external library was using an outdated version of library IoDrvNextoModbus. Fixed an issue that could result in error when trying to add an OPC UA Information Model to the project. Fixed an issue in redundant projects using Modbus Direct, where the execution of a STOP command for a CPU was experiencing significant delays. Fixed an issue in Symbol Configuration where selecting a GVL (or other symbol) from a library did not generate code properly, resulting in the symbol not being selected when using NX or XP controllers. Fixed an issue where the Redundancy Configuration could not effectively apply a modification after a specific sequence of unchecking and checking an item. Fixed an issue where the EtherCAT task cycle time verification was not functioning correctly for X2 devices. Fixed compilation errors encountered when creating projects with GN-9372 (SP11). Fixed the BSD Device Configurator in Px mode, where some variables were incorrectly fixed. Fixed the issue with project updates when an external EDS was not installed prior to the update. Fixed the message displayed when the user executes the stop command in redundant projects.<td>3.70</td><td>29/11/2024</td>	3.70	29/11/2024

	-			ı .
	•	Improved performance by removing the check for the limit on the number of variables in a POU.		
	•	Improved the Easy Connection confirmation message to prompt users to save a project backup.		
	•	Removed the Tools/Package Manager command.		
	•	Info: This version was built with CODESYS Development System		
		3.5.18.60.		
	•	Added support to use NX8000 with NX3008.		
	•	Added new J1939 Database (discontinued in 3.40).		
	•	Added diagnostic to inform when the network configuration is defined		
	•	by the system webpage. Added support for GT-3744, GT-4314, M3744, and M4314 modules on		
		Distributed IO Configurator.		
	•	Added ML9089 Ethernet IP device.		
	•	Updated BSD Drive Configurator to support Px and CSx modes.		
	•	Updated DD files for Beijer BSD devices.		
	•	Updated G series devices:		
		PIO devices.		
		GL-9086 EtherCAT device.		
		GL-9087 PROFINET device.GL-9386 EtherCAT device.		
		GN-9222 Profibus DP device.		
BF	•	Updated M series devices:	3.63	30/09/2024
		■ PIO devices.		
		 M9222 Profibus DP device. 		
		■ M9287 PROFINET device.		
		• M9386 EtherCAT device.		
	•	Fixed a namespace problem on MQTT wizard which caused a compilation error.		
	•	Fixed an MQTT Wizard code to accept all types of variables in a		
		Publisher message tag.		
	•	Fixed an issue on Wizard which was showing duplicate option		
		J1939_ECU for X2.		
	•	Fixed some library references for PIO and X2.		
	•	Removed (discontinued) the parameter "Enable I/O update per task" for NX3008.		
	•	Info: This version was built with CODESYS Development System		
		3.5.18.60.		
	•	Added GN-9261 Distributed IO Configurator.		
	•	Added BFI CANopen Configurator.		
	•	Added BFI PROFINET Configurator.		
	•	Added "Search in Documents" button feature.		
	•	Added a now object with a Wizard to greate a POU for Datalogger		
	•	Added a new object with a Wizard to create a POU for Datalogger Function Block.		
	•	Added a new object with a Wizard to create a POU for MQTT Function		
		Block.		
BE	•	Added commands "Reorder List and Clear Gaps", "Save Current Values	2.62	07/06/2024
DE		to Recipe" and "Restore Values from Recipe" in the "Declaration" menu.	3.62	07/06/2024
	•	Added support for updating different versions of runtime systems for		
		X2/BoX2 devices.		
	•	Enabled command "Scan for Devices" for EtherNet/IP and		
		CANopen.		
	•	Enabled the "Update device" command for CAN, EtherNET/IP,		
		EtherCAT and PROFINET protocols.		
	•	Enabled "Master Fault Action" in the EtherCAT Distributed IO Configurator.		
	•	Fixed a problem introduced on version 3.60 where some drivers can		
		processing introduced on version ofton where bothe drivers can		I

	stop working after a second download in NX3008.		
	• Fixed a problem where COM1 TYPE could be incorrect after a project update changing CPU model.		
	• Fixed a problem where Modbus Symbol mappings could be corrupted		
	after copy and paste from other projects.		
	• Fixed a problem where, under rare conditions, a Modbus reconnection could cause an exception.		
	Fixed general translation errors.		
	• Improved readability of messages from Drives Configurator when updating Drives.		
	• Moved cache build to the end of the install process to optimize the first		
	execution of the program.		
	Updated EDS files for Beijer BFI devices. Lighted BCS Tools 2.62 CANopen postsore to 4.2.0.0.		
	Updated BCS Tools 3.62 CANopen package to 4.2.0.0. Disabled the 'Sean for Davises' command while legged in		
	Disabled the 'Scan for Devices' command while logged in. If the CODESYS Devices is a second of the codes.		
	• Info: This version was built with CODESYS Development System 3.5.18.60.		
	Added support to PROFINET Dual-port Controller for MRP on NX3008.		
BD	• Info: This version was built with CODESYS Development System	3.61	08/02/2024
	3.5.18.60.		
	 Added M9386, M9289 and M9273 Distributed IO Configurator. 		
	 Added BFI Modbus TCP Configurator. 		
	 Added BootP Server. 		
	Added Advanced PID Control function block PIDA to all Beijer		
	devices.		
	Added "Professional Developer Edition" support through an option		
	selected during the install process. Functionality differs based on the		
	selected device. Requires a Codesys license for activation.		
	Added a message to confirm "Import Online Variables".		
	Added a new command "Build" under Build menu.		
	Added a new command "Release Notes" under Help menu.		
	Added an option to enable/disable the BSD/BFI EtherCAT		
	autogenerated code.		
	Added documentation in various libraries to enhance user guidance.		
	Added support for ".projectarchive" files on "Open project" command. Added support for GT-2418 GT-2428 GT-2734 and GT-3901		
	raded support for G1 2116, G1 2126, G1 2731, and G1 3701		
	modules on Distributed IO Configurator. Added support for selection of other languages		
	reduce support for selection of other languages.		
ВС	 Added support for Static Analysis Light. Changed PIDControl to create its objects inside folders for better 	3.60	08/02/2024
I BC	project organization.	3.00	06/02/2024
	 Changed the "Communication Settings" style from "Classic mode" to "Simple mode". 		
1	 Simple mode . Changed the default path for new projects to a dedicated folder. 		
	 Changed the default path for new projects to a dedicated folder. Changed the default profile of new projects to "Machine". 		
	Changed the default setting to use the "Textual View" in the		
	POUs/GVLs.		
	• Changed the default option of 'Behavior for outputs in stop' to 'Set all outputs to default' in PLC Settings, reversing the change made in		
	version 3.53.		
	■ Changed the name of the license "Big Program" to "UNITED".		
	■ Changed to register as the default program to open .project and		
	.projectarchive extensions.		
	Fixed a problem in the project update with an NX5100.		
	Fixed a problem on Webvisu which could prevent the application to		
	start when the option "Overwrite existing trace on PLC" is unchecked.		
1	Fixed a problem on CPU redundancy that could cause an exception		
1	after a switchover due to a problem on the compiler, which could		
	incorrectly allocate non-related variables inside redundant areas.		

	•	Fixed a problem that prevented more than one tool from connecting at		
		the same time in the controller.		
	-	Fixed a problem that was making the login process hang for several		
		seconds when Source Download option was set to "Prompt at		
		download".		
	-	Fixed a problem where a change in the description of NX and NJ		
		modules could not be applied.		
	-	Fixed a problem where NX and NJ modules could not be properly		
		updated after a Project Update.		
		Fixed a problem where the module description could not be saved		
		properly after a Project Update.		
		Fixed an invalid device log message "Demo mode for IO-Link expired		
		(license not installed)".		
		Fixed the number of analog inputs on IntegratedIO GVL for XP3xx.		
		Improved the performance of code generation, especially in projects		
		with symbolic variable mappings.		
		Improved the performance to open a project.		
		Optimized the processing of MODBUS Master (Serial) requests, which		
		can significantly improve the communication performance on networks		
		with several slaves.		
	[Removed (discontinued) the CPU parameters "TCP/IP Parameters" for all CPUs models.		
	-	Removed (discontinued) the functionality "Diagnostic Explorer".		
	•	Removed the limit of the quantity of variables on Symbol Configurator.		
	•	Updated BFI EtherCAT library.		
	•	Updated BFI Modbus RTU library.		
	•	Updated editor of Ladder Logic Diagram (LD) with several		
	L	improvements.		
	•	Updated EtherNet/IP, Profinet, and EtherCAT communication drivers,		
		removing all customizations. Previous projects may require		
		adjustments.		
	•	Updated Gateway program, removing all customizations.		
	•	Updated GN-9222 Profibus DP device.		
	•	Updated the version of CodeMeter to support Soft Container licenses		
		on Workstation (Device licensing not supported yet).		
	•	Info: This version was built with CODESYS Development System		
		3.5.18.60.		
	•	Added support for NX6014 and NX6134 on PROFIBUS head NX5110		
		and NX5210.		
	•	Changed the default option of 'Behavior for outputs in stop' to 'Keep		
		Current Values' in PLC Settings, reversing the change made in BCS		
		Tools 3.40.		
ВВ	•	Fixed a problem introduced on version 3.40 where the diagnostics and	3.53	16/11/2023
00		commands of NX4010 were not working when using half-cluster	5.55	10/11/2023
		redundancy without redundancy panel.		
	•	Fixed a problem where the EtherCAT Master driver could prevent the		
		local bus to start after a download, making the CPU to say in STOP.		
	•	Info: This version was built with CODESYS Development System		
		3.5.17.40.		
	•	Added support to IEC 60870-5-104 Server protocol on NX3008 CPU.		
	•	Fixed a problem introduced on previous version which was causing		
		error when adding I/O modules on NX5100 and NX5101 MODBUS		
		TCP Heads.		
	•	Changed the minimum MainTask interval to 1ms for all CPUs and		
BA		project profiles.	3.52	01/09/2023
ĎА	•	Increased the XP350 data memory from 2MB to 6MB and the program	5.52	01/09/2023
		memory from 3MB to 8MB.		
	-	Removed "Output state in STOP" parameter (discontinued) from		
		NX1005, NX2001, NX2020 and NX6100.		
	•	Info: This version was built with CODESYS Development System		
		3.5.17.40.		
	•			

	Add to Man		
AZ	 Added new PIO targets: PIO M9372. PIO M9373. Added GT-2348 and GT-228F in BCSTools. Added new field in wizard to choose different versions of runtime systems for PIO devices. Added support for updating different versions of runtime systems for PIO devices. Added command "Create POUs from Template" for CFC language. Added PLC Settings tab on the target device. Improved design of NET interfaces configuration for better usability and uniformity. PID Auto-tune improvements (NextoPID library): The maximum range of parameter PercHystPV was increased from 1% to 5%, allowing us to auto-tune processes with noise levels higher than the previous version. The error PEAK_TOO_LOW changed to avoid unnecessary aborts of auto-tuning. The error CYCLE_TOO_FAST was eliminated to avoid unnecessary aborts of auto-tuning. The error HIGH_DEAD_TIME was eliminated to avoid unnecessary aborts of auto-tuning. PID ControlPWM block improvements (NextoPID library): this block now must be called inside a cyclic task. Freewheeling tasks would provide non-precise output. Otherwise, the Error output is set. Furthermore, a new output SampleTime informs the interval of the cyclic task. Fixed 'File transfer error' when logging in with PIO controllers. Fixed "Export Online Variables" problems with more than 10.000 variables. Fixed simulation mode to work using port 11739. Fixed error in 'Recipe Management' with X2, BoX2 and PIO's devices. Removed GL-9971 PIO from BCSTools. Updated version of EtherNet/IP driver: Fixed a problem where Ethernet/IP Scanner would not update %1 in RUN when option "Update I/O while in stop" is checked.	3.51	19/06/2023
AY	 Added Distributed IO Configurator. Added BSD/BFI Configurator. Added Documents feature. Added Restore Points feature. Added export tags for iX Developer feature. Added ModBus TCP Master and Modbus RTU compatibility with Nexto Xpress series and NX3008. Added support for XP350 PLC with SoftMotion. Added support to run Python scripts. Included a new command to remove the current license (returning to Lite). Updated GN-948x devices. Fixed MODBUS RTU Master request diagnostic not working with more than 128 requests. Fixed I/O mapping update for EtherCAT devices. Fixed 'Scan for devices' command doesn't work with X2 and PIO controllers. 	3.50	19/01/2023

	 Fixed general screen size and translation problems. Fixed the "Invalid result package" error message when trying to login to the CPU with incompatible firmware. Added, by default, VAR and END_VAR in PLC_PRG. Info: This version was built with CODESYS Development System 3.5.17.40. 		
AX	 Added support to new CPU NX3008. Added verification to check for the presence of non-related variables inside redundant areas. Added Reset Origin Device Command. Added Reset Origin Device Command. Added support to EtherCAT Master for all Nexto Xpress. Added LibIntegratedIoExt which allows to use additional analog inputs on Nexto Xpress. Added a compilation error message when user uses REFERENCE TO in persistent vars. Fixed Online Change performance, which was degraded since version 3.31. Fixed login performance when several CFC POUs windows were opened. Fixed an issue where mappings of MODBUS Symbol Client and Master could stop to work (frozen values) after an online change. Fixed an issue where graphical elements could show a red "X" ending on a crash due to GDI handle leak. Fixed an issue where deleting unused symbols on Symbol Configuration could lead to exception on OPC UA Server. Fixed an issue where changing the execution order of CFC POU with online change could lead to a PLC exception. Fixed BCS Tools crash error after closing ModBus Server window when opening a project without updating it. Fixed an issue where changing focus in and out on NET fields results on project change. Fixed BCS Tools crash error when changing Watchdog of MainTask on Xpress controller. Fixed an issue where Project Compare could show differences for identical CFC POUs. Fixed declaring the libraries dependencies as placeholders. Increased the maximum size of Program Memory from 2MB to 3MB on XP300/XP315/XP325. Increased the maximum size of Program Memory from 6MB to 8MB on XP340 and NX3005. Removed limit of 500 assemblies on EtherNetIP Scanner. Updated version of EtherCAT Master driver. Updated version of EtherCAT Master driver. Updated LibNextoPID library containing new standard and advanced control functions. <l< th=""><th>3.40</th><th>08/12/2022</th></l<>	3.40	08/12/2022
AW	 Added minimum required firmware check routine in the X2/BoX2/PIO targets. Added new message box to notify user if a new version is available for download. Added rules to allow adding only PLC compatible devices. Added new command Create POUs from Template. Added new PIO targets: PIO GL-9973. PIO GL-9974. PIO GL-9975. Added new wizard features: Combo box to categorize devices during project creation. Fieldbus wizard configuration (protocol + slave + amount of slaves). 	3.34	16/02/2022

Beijer Electronics AB

	 Added start and stop system events in project template. 		
	MODBUS Symbol:		
	 Fixed MODBUS Client/Server does not support ambiguous 		
	variables.		
	 Fixed bug that IntegratedIO Tags don't work with Modbus. 		
	 Fixed exception in the PLC when changing the size of the array 		
	mapped in MODBUS.		
	Project Update:		
	 New User Interface. 		
	 Correct version displaying. 		
	 Removed Project Environment window. 		
	 Added LAN port name update for Ethernet and EtherCAT devices 		
	when upgrading projects created in previous versions to HMI X2.		
	 Fixed behavior that caused the project to break when updating 		
	without saving first.		
	• Fixed invalid version format error when updating X2 devices with		
	Ethercat Slaves.		
	Reduced CPU consumption when logged in.		
	• Fixed window behavior not closing during code generation.		
	• Fixed wizard behavior not correctly displaying ethernet interface		
	choices.		
	• Fixed Modbus TCP Slave configuration tabs that were not displayed.		
	 Fixed exception when loss connection to the PLC. Fixed exception when loss connection to the PLC. 		
	 Fixed compilation error when using J1939 ECU device in projects with X2 modules. 		
	 Fixed Gateway conflict message with other Gateways already installed. 		
	 Fixed incorrect channel and description texts in Integrated I/O page. 		
	 Fixed keyboard shortcuts S and N for Write and Force dialogs in 		
	Portuguese language.		
	 Fixed improper add of GVLs IoQualities and Modules_Diagnostic when 		
	opening project created on previous versions.		
	• Fixed issue that allows Maintask interval greater than 100 ms in projects		
	with Machine Profile.		
	 Fixed missing .DLL that causes problemas in Trace object of previous versions. 		
	 Removed the 'Enable retain and persistent variables in function blocks' 		
	checkbox from CPU parameters page.		
	 Removed 'Scan for Devices' command for PROFIBUS devices. 		
	 Removed software license update window during startup. 		
	 Removed access to startup application settings. 		
	 Info: This version was built with CODESYS Development System 		
	3.5.17.40.		
	Added new target PIO GL-9972.		
	 Added new Ethernet/IP adapter GN-9089. 		
	 Added new PROFINET Device GL-9087. 		
	 Added new PROFINET Device GN-9287. 		
	 Added CSV import and export tab of I/O mappings. 		
	• Fixed issue in MODBUS Symbol RTU Master that makes mappings		
	stop to work after an online change.		
	• Fixed issue in MODBUS Symbol RTU Slave that makes mappings stop		
AV	to work after an online change.Fixed crash after closing the Clock Settings dialog.	3.33	24/09/2021
ΑV	 Fixed erash after closing the clock settings dialog. Fixed application startup exception when declaring arrays of function 	3.33	24/09/2021
	blocks in retain or persistent areas.		
	 Fixed system out of memory error caused by changes in Redundancy 		
	configuration.		
	 Fixed J1939 device issue regarding stack version. 		
	• Fixed issue that made impossible to delete the copies of UserPrg POU.		
	• Fixed the startup with invalid international settings.		
	 Fixed issue in PID Control editor that causes malfunction after 		
	performing a 'clean all' command.		

	■ Created "OPC UA" device category		
	 Unchecked, by default, the 'Recipe management in the PLC' option in 		
	the 'Recipe Manager' object.		
	Renamed bit bReserved05 to bHardwareFailure for Ponto series module		
	PO1213.		
	 Updated BFI inverters devices. 		
	 Updated Ethernet/IP GN-9289 device. 		
	 Updated G-Series Modules and PIO targets. 		
	 Improved the project template for PIO Beijer devices. 		
	Improved the project template for X2/BoX2 Beijer devices.		
	Improvements in NX5000 redundancy performance.		
	Improvements in Portuguese translation.		
	 Info: This version was built with CODESYS Development System 		
	3.5.15.55.		
	• Fixed improper online change request due to IoDrvNextoRedundancy		
	library.		
	 Fixed improper online change request due to LibDatabaseManager 		
AU	library.	3.32	11/06/2021
	Fixed the overlap of I/O addresses for PROFINET devices.		
	Improvements in PROFIBUS diagnostics for Ponto Series slaves.		
	 Info: This version was built with CODESYS Development System 		
	3.5.15.55.		
	Added new target GL-9971 (PIO).		
	Added OPC UA for GN-937x (PIO).		
	 Added 'Declarations > Add all instance paths' command for 		
	Persistent Vars.		
	 Added confirmation dialog for force variables command (F7). Added confirmation dialog for write variables command (Ctrl + F7) 		
	 Added confirmation dialog for write variables command (Ctrl + F7). Added 'Connected Clients' counter in the status bar (requires 		
	compatible firmware).		
	 Added support to System Events. 		
	 Added support to System Events. Added support to reStructuredText documentation for libraries. 		
	 Added Application tab on target device. 		
	 Added 'Scan for Devices' feature for all Beijer devices. 		
	Added 'Disable Device' command present in the Devices tab.		
	Added the default configuration 'Auto-reconnect' on the Modbus TCP		
	Master device for GN-9372 and GL-9971.		
	Fixed compatibility with projects created between versions 3.15 and		
	3.23.		
	■ Fixed issue in MODBUS Symbol Server that makes mappings stop to		
	work after an online change.		
AT	• Fixed issue in MODBUS Symbol Client that makes mappings stop to	3.31	16/04/2021
	work after an online change.		- 0, 0 ., - 0 - 1
	Fixed issue that makes 'subsequent' attribute don't be applied on online		
	change.		
	■ Fixed issue that makes new objects marked in Redundancy		
	Configuration don't be applied on online change.		
	■ Fixed Ethernet/IP Scanner to proper work with I/O bit mapping from		
	existing symbolic variables.		
	• Fixed 'Scan for Devices' command of EtherCAT Master on online		
	mode.		
	 Fixed compile error for GVLs with attribute 'qualified_only' in 		
	Redundancy Configuration.		
	 Fixed improper download request for Nexto projects with EtherCAT 		
	Master.		
	• Fixed improper online change request for projects with CFC's POUs.		
	• Fixed behavior of pulse variables (Special_Variables GVL) for projects		
	with "Basic" profile.		
	• Fixed issue that put project with Symbol Configuration in dirty state		
	after opening.		
	■ Fixed the installation conflict with Codesys 3.5 SP15 Patch 5.		

	-	Enabled 'Download Application Info' option for all targets.		
	•	Removed command "Tools > Import and Export Options".		
	•	Improvements in Portuguese translation.		
	•	Improvements in online help (Nexto Xpress resolution of PT100 and		
		PT1000).		
	•	Improvements in CSV import and export commands.		
	•	Improvements in installer.		
	•	Improvements in PID Control editor.		
	•	Fixed auto-declare of variables for X2/BoX2 targets.		
	•	Changed the default values of the MODBUS TCP Master settings.		
	•	Changed the default values of the Ethernet Adapter settings.		
	•	Changed the default values of EtherCAT Master settings.		
	•	Updated the GN-9386 and GL-9086 EtherCAT slaves.		
	•	Improvements in PIO available application objects.		
	•	Improved the performance to save project changing the project		
		compress level from maximum compress to minimum compress.		
	•	Fixed the issue of the Gateway not starting.		
	•	Updated CANopen inverter devices.		
	•	Changed "Set all outputs to default" as standard on the "PLC Settings"		
		tab for GL-9971 and GN-9372.		
	-	Changed the default configuration 'Enabled 1 (use bus cycle task if not used in any task)' on rack devices for GN-9372 and GL-9971.		
		Fixed the Special Variables program calls location in redundant		
	•	applications.		
		Info: This version was built with CODESYS Development System		
	•	3.5.15.55.		
		Added new targets X2, BoX2 and PIO;		
		Added command "License Manager" in "Tools" menu;		
		Added command "License Repository" in "Tools" menu;		
		Added command "Bookmarks" in "View" menu;		
		Added commands "Find in Project" and "Replace in Project" to		
		standard toolbar;		
	•	Added new default options for "SmartCoding" and "FBD, LD and IL		
		editor";		
	•	Increased the RAM usage limit of the programming system for x64		
		architecture;		
	•	Increased maximum number of tasks of Nexto Xpress PLCs from 5 to		
		16;		
	•	Integrated I/O points are considered by Wizard when creating a project		
		with I/O modules;		
	•	Enabled on Menu "Declarations" the submenu "Reorder List and Clear		
		Gaps".		
4.0	-	Included new default options for "SmartCoding" and "FBD, LD and IL	2.20	07/10/2020
AS		editor".	3.30	07/10/2020
	•	Improved mappings limit routines;		
		Improved project treeview display;		
		Improved robustness of Login command; Improvements in "Update Software License" Window;		
		Improvements in Opdate Software License Window, Improvements in device treeview to show access modifiers;		
		Improvements in device treeview to show access modifiers, Improvements in message texts about memory range field exceeding		
		PLC memory limit;		
		Improvements in portuguese message texts;		
		Improvements in project update (modify device) for products with		
		Integrated I/O;		
	-	Improvements in simulation mode;		
	-	Improvements in Wizard usability;		
	-	Improvements of color schemes in Text Editor options;		
	-	Improvements of the intelligent input assistance:		
		Categories: Open with 'Ctrl + Space', switch pages with arrows		
		left/right;		
		• Filters: When typing elements from DUTs or FBs, naming filter		
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now is independent of character position and characteres are highlighted: Improvements on CPC ToolBox and Editor: Accelerated multiple insertion of an element from the ToolBox in the CPC editor, by selecting the element on ToolBox view, pressing Crl and left elicking in the editor to insert at each new elick; Auto Datafflow Mode as new default setting; Display Execution Order shows the execution order of the blocks as overlay; Execution order is setting is adaptable in POU properties; Explicit start point for feedback loops; Drag and drop of variables; Improvements on ST Editor: When the cursor is on a symbol name, all occurrence locations of the symbol within the editor are highlighted; Incremental search for strings with 'Ctrl+ Shift+i'; Navigation through searched string with 'Alt + Page Up/Page Down'; Comment and uncomment multiple lines at once via context menu or 'Ctrl+o' and 'Ctrl+i' shortcuts; Editing columns via keyboard operation 'Shift + Alt + Arrow Keys'; Auto declare via "Smart Tags" with suggestion popup. Keyboard shortcut is 'Ctrl+'.' Improvements on Watch: Type cast for pointer inside Watch; Monitoring of instance via interface, also in case of dynamically created objects; Monitoring of the instance when reference is made via pointer; Removed Banish option from installer; Removed Unapuage from Wizard; Removed Unapuage For Wizard; Removed Unapuage For Wizard; Removed Unapuage For Wizard; Removed Unapuage For Wizard; Removed Banish option from installer; Industry Manager > Icon legand; Updates the fieldbus devices; Fixed error on printing the project through the command "Document" in "Project" menu: Fixed error on printing the project through the command "Document" in "Project" menu: Fixed improper online change request after close and reopen a project; Fixed improper online change request due to Symbol Configuration automatic cleanup routine; Fixed improper online change request on projects with not installed third-party devices; Fixed improper online change				
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■ Increased limit of OPC UA variables from 5000 to 20000.		Increased limit of OPC UA variables from 5000 to 20000.		

	 Increased limit of Export Online Variables from 30000 to 60000. 		
	 Performance optimization of Export Online Variables routines. 		
	 Fixed bit forcing issues for direct mapped variables. 		
	 Fixed compilation error in Simulation Mode when using some CPU and 		
	rack combinations.		
	 Fixed compilation error caused by LibDatalogger dependencies. 		
	 Info: This version was built with CODESYS Development System 		
	3.5.12.02.		
	 New limit of 16000 Ethernet/IP Device assemblies for the whole 		
	project.		
	 Added support to Update Device context menu for EtherCAT Slaves. 		
	 Increased limit of assemblies per Ethernet/IP Device to 500. 		
	 Fixed an issue where a password-protected project would failed to open. 		
	Tixed all issue where Tibeolition object would not arways save the		
	generated code correctly.	2.22	20/02/2020
-	Fixed some issues with Export Online Variables.	3.22	30/03/2020
	 Improved Project Update for update of children devices. 		
	 Improved support for multiple versions to be installed in parallel. 		
	 Improvements in texts for Portuguese and English Cultures. 		
	 Included MODBUS Symbol Client device version 1.0.0.25 for support 		
	of old versions.		
	 Info: This version was built with CODESYS Development System 		
	3.5.12.02.		
	 Added a new type of license: BIG Program Professional. 		
	 Increased limit of assemblies per Ethernet/IP Device from 50 to 60. 		
	• Fixed a crash in Ethernet/IP interface when configuring "AXL E EIP DI		
	16 M12 6P" device.		1 - 10 - 1 - 0 - 0
-	■ Improvements in Project Wizard.	3.21	12/02/2020
	Improvements in texts for Portuguese and English Cultures.		
	 Info: This version was built with CODESYS Development System 		
	3.5.12.02.		
	Added a new command called "Start PACTware" in "Tools" menu to		
	call an Asset Management Tool.		
	1 ixed exception in redundant 1713030 arter project synchronization		
-	process;	3.20	27/12/2019
	Fixed issue causing "Online Change" when opening project with		
	WebVisualization object.		
	 Info: This version was built with CODESYS Development System 		
	3.5.12.02.		
	 Added option Refactoring in the menu Tools/Options; 		
	 Added new Module Options on EtherNet/IP Module of EtherNet/IP 		
	Adapter: SInt Input Module x 124, SInt Output Module x 125, Int Input		
	Module x 124, Int Output Module x 125, DInt Input Module x 124, DInt		
	Output Module x 125, Real Input Module x 124 and Real Output		
	Module x 125;		
	 Added support for MQTT_CLIENT Function Block (provided by 		
	LibMQTT), which allows the controller to publish/subscribe MQTT		
	messages;		
	 Added support for MSSQL_CLIENT Function Block (provided by 		
	LibSQLClient), which allows the controller to connect to a Microsoft	2.10	20/12/2012
-	SQL Server database;	3.19	20/12/2019
	 Added support to CAN termination parameter on the CPU device for 		
	XP300, XP315, XP325 and XP340;		
	Added network configuration rules in XP300, XP315, XP325 and		
	XP340 to prevent downloads with invalid configuration.		
	Improvements in Project Update;]
	improvements in Froject Wizard,		
	Improvements in the project file creation;		
	■ Improvements in NX3003 Integrated/IO Mapping;		
	Improvements in texts for Portuguese Culture:		
	Improvements in texts for Portuguese Culture;Disabled Expansion Ethernet Interfaces and Redundancy network for		

	Basic License;		
	while updating the project;		
-			
	disconnected;		
-	Fixed problem creating unnecessary NX4000 modules;		
-			
	projects;		
-	Fixed a problem prevented project creation when BCS Tools		
	International Settings was marked "Same as Microsoft Windows";		
-	Fixed issue that caused "Online Change" when opening project in		
	specific situation;		
-	Fixed a crash in Ethernet/IP interface when configuring "AXL E EIP DI		
	16 M12 6P" device.		
-	Info: This version was built with CODESYS Development System		
	3.5.12.02.		
-	Added support to XP340 PLC;		
-	Added option on the device IEC 60870-5-104 Server to receive a		
	command in local time;		
-	reduced option to the device income of the series timestamps		
	in local time;		
•	raded the commune recurrency in the mena zant,		
-	raded new options of Baddrates for Nexto Apress Beriai (COMI). 2 100		
	bps and 4800 bps;		
-	ridded new cicinents for visualization readile,		
-	ridded a new object caned ritarin manager,		
-	raded a new object cancer from recording manager,		
-	raded a new object cance interface,		
	raded ern topen manager for m 300 and m 313,		
	7 kdded 31737 Wallager and 1200 101 711 300, 711 313, 711 323 and 711 310.		
	improvements in freip i nes,		
	improvements in importation of the		
	Improvements in Comparing Projects with PIDControl object;		
		3.18	29/10/2019
		2.10	25/10/2015
-			
	conversion from unsigned Type 'USINT' to signed Type 'SINT'" error;		
-			
	selecting Normal Mode;		
-	Fixed a problem to send the project archive to PLC;		
-	Fixed a problem to show Security Screen in the previous versions;		
-	i med 1719020 description,		
-	Thea an error when saving recipes using relation variables,		
-	i med can rocation at manning of redundant applications,		
	Tixed login with online change in Redundant Project;		
-	Tixed copy, paste for extropen remote Bevice,		
	changed the Manifusk Interval to be triggered as a warning, no longer		
	as an error for Xpress CPUs;		
	Changed held hame of the serial devanced parameter to the 105		
	Termination";		
	Changed download archive size from 10 MB to 20 MB for M 500,		
	XP315 and XP325;		
•	raded support in Wobbes Symbol drivers and the 60070 3 101		
	Server driver to variables from Function Blocks with EXTENDS directive;		
	uncenve,		

	Added consistency when try to using a NX5100 with NX9020;		
	 Disabled clock settings in simulation mode. Info: This version was built with CODESYS Development System 		
	 Info: This version was built with CODESYS Development System 3.5.12.02. 		
	 Included XP3xx in CANopen Slave Devices library (to be used with 		
	CANopen Manager).		
	■ Improvements in Project Update;		
	Improvements in the project file creation;		
-	■ Improvements in Help Files;	3.17	04/09/2019
	 Fixes in copy and paste commands in I/O Mapping; 		
	 Fixes in Special Variables GVL. 		
	 Info: This version was built with CODESYS Development System 		
	3.5.12.02.		
	 Added Integrated I/O Mapping for NX3003 and XP3xx; 		
	 Enabled Protocol EtherNet/IP Scanner and Adapter for all CPUs; 		
	 Included Datalogger functionality (added LibDataLogger library); 		
	 Added a new system GVL called Special Variables including Pulsating 		
	Bits, Clock variables and Constants;		
	 Added new "Open Circuit Value" parameter for XP3xx Analog Inputs; Added information about modules installation in Halm files: 		
	 Added information about modules installation in Help files; Added a tooltip that shows up in the configuration screen when passing 		
	the mouse cursor above the modules;		
	 Improvements in NX5101 Modbus Mappings to align data according to 		
	the physical order;		
	 Improvements in Analog Output Configuration Page XP315 and 		
	XP325;	2.16	1.4/00/2010
-	• Fixed error message in New Project Screen when trying to add I/O	3.16	14/08/2019
	modules;		
	 Improvements in the English culture help files; 		
	• Fixed I/O Simulation tool was not working for Integrated I/O in		
	NX3003, XP300, XP315 and XP325;		
	Limited the use of reserved words ("DigitalInputs", "DigitalOutputs",		
	"FastInputs" and "FastOutputs") in code generation for CPU NX3003,		
	XP300, XP315 and XP325; Fixed the incompatibility with NJ6001 and NJ6005 (introduced in		
	recent versions 3.14 and 3.15) when module have firmware version		
	lower than 1.1.0.1.		
	Info: This version was built with CODESYS Development System		
	3.5.12.02.		
	 Updated the compiler to fix a potential occurrence of exception 		
	when using Ethernet IP protocol.	2 15	01/07/2010
_	 Info: This version was built with CODESYS Development System 	3.15	01/07/2019
	3.5.12.02.		
	■ Included option "disabled" for open circuit value on 4-20mA inputs		
	of NX6000 and NJ6000 modules, allowing reading of signals below		
	4mA (0 to 4mA).		
	 Included 4-20mA scale on modules NJ6001, NJ6005 and NJ6101, adding also an artist to set the behavior of analog inputs on appearance. 		
	adding also an option to set the behavior of analog inputs on open circuit condition.		
	 Added "Login" Button to Easy Connection. 		
	 Including a confirmation message before removing objects from the 		
	project.	2.1.	26/05/2010
-	 Added Right Click to open the product information web page in 	3.14	26/06/2019
	Configuration (Bus).		
	 Use Internet Explorer 11 to show the start web page (requires 		
	Internet Explorer 11 to be installed).		
	 Improvement to copy and paste on Modbus Symbol Server. 		
	 Improved algorithm of the LibNextoPID with anti-reset windup and 		
	the automatic error recovery (ex: Gp < 0).		
	• Fixed the translation of the "Paste Contacts" submenu in the "FBD /		
	LD / IL" menu.		

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	•	Fixed to always create a project with newest version of PLC.		
	•	Fixed possible error "Object reference not set to an instance of an		
		object" after request export to CSV.		
	•	Fixed the culture selection after open the "Clock Settings" dialog.		
	-	Fixed the "Export Online Variables" command.		
	-	Fixed error introduced on version 3.10 which may cause exception		
		after a switchover of redundant PLC.		
	•	Fixed error introduced on version 3.11 which results on exception		
		when reading/writing to MODBUS mappings with variable size		
		longer than 16 bits.		
	-	Changed limits of Recipe Manager, keeping only the limit of 5.000		
		variables per Recipe Definition.		
	•	Improved Help.		
	•	Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	•	Changed the installer to solve some cases where the installation		
		process results on error when running on outdated versions of		
-		Windows 7 and 8.1.	3.13	16/04/2019
	•	Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	-	Added CANopen Manager support for XP325.		
	•	Added Fast I/O support (counters, interrupts and PWM/PTO) for		
		XP300, XP315 and XP325.		
	-	Added Interruption option and Counter Interrupts to NX3003 in		
		Integrated I/O window.		
	•	Added support for Import and Export to NX3003, XP300, XP315		
		and XP325.		
	•	Updated help with CANopen.		
	•	Fixed the checkbox "Enable retain and persistent variables in		
		Function Blocks", which was not being effective when checked		
AR		specifically for Nexto Xpress controllers.	3.12	11/03/2019
	•	The declarations editors (GVL and POUS) now opens in tabular		
		mode.		
	•	Added LibMachineOEM.		
	•	Automatically open the project update window for outdated		
		projects.		
	•	Fixed a problem on PLC Redundancy control algorithm, which		
		could cause a failure on the switchover process if an specific		
		communication problem between the CPUs has occured previously.		
	•	Info: This version was built with CODESYS Development System		
		3.5.12.0.		
	-	Added I/O Simulator page		
	•	Added new hot swap mode "Hot Swap Disabled Without Startup		
		Consistency" for following devices: NX3003, NX3004, NX3005,		
		NX3010, NX3020, NX3030 and NX5100		
	•	Updated help		
	•	Added encryption to OPC UA		
	•	Opens the declarations editors (GVL and POUS) in tabular mode		
	•	Added a message box to warning about changing values when user	20:	
		leaves a page	3.04	
AQ	•	Improved the error message when use a Basic license	3.05	28/12/2018
	-	Added support to Nexto Xpress PLCs XP300, XP315 and XP325	3.10	
	-	Added support to NX3003 PLC	3.11	
	-	Added support to NX5101 MODBUS TCP Head		
	-	Added support to OPC UA configuration		
	-	Added EtherNet/IP Adapter		
	•	Added option in the project wizard to create the directory to		
		project's files		
	•	Added "Find in Project" command in menu "Edit"		
	•	Added "Replace in Project" command in menu "Edit"		
		Added "Browse Call Tree" command in menu "Edit > Browse"		

	•	Added "BCS Tools Perspective" command in menu "View >		
		Choose Perspective" Added "HMI Perspective" command in menu "View > Choose		
		Perspective"		
	•	Added "Visualization" command in menu "View > HMI Views"		
	•	Added "HMI Features" command in menu "View > HMI Views"		
		Added "Programmings" command in menu "View > HMI Views" Added "Datasources" command in menu "View > HMI Views"		
		Added "Commit Accepted Changes" command in menu "Project"		
	•	Added "Insert Execute Box" command in menu "FBD/LD/IL"		
	•	Added "Add to Recipe Definition" command in context menu of		
		the POUs and GVLs Added "Browse Call Tree" command in context menu of the POUs		
		Added "Export Library" command in context menu of the Library		
		Manager		
	•	Included Encryption tab in the Application object		
	•	The parameter "Minimum Error Before Clock Update" accepts a		
		new range from 1 up to 65519 ms Improvements in the performance of Import Safety Projects		
		command		
	•	Improvements in the Import Safety Projects command		
	•	Info: This version was built with CODESYS Development System		
		3.5.12.0. Added Help files for EtherNet/IP in Portuguese;		
		Included the possibility of enabling hot swap on CPU configuration,		
		even when using Nexto Jet modules (which doesn't have support		
		for this feature). This allows to avoid stopping the PLC when a		
		remote bus expansion rack is disconnected.		
	-	Added Import Safety Project and Delete Safety Objects Imported commands in Project menu;		
A D		Added message if no device was found when Easy Connection is	3.03	15/01/2019
AP		executed;	3.03	15/01/2018
	•	Added on the About dialog the version in wich the project was		
		created; Added support to Alarm Manager and Alarm Configuration;		
	•	Added support to NX9020 rack.		
	•	Increased the limit of the EtherCAT slaves to 192.		
	•	Info: This version was built with CODESYS Development System		
		3.5.7.60. Added EtherNet/IP Scanner;		
	•	Added the IEC 60870-5-104 Server device;		
	•	Added Disable Breakpoint and Enable Breakpoint commands in		
	_	Debug menu;		
		Added Easy Connection command; Added Edit IO mappings command in context menu of Device		
		object;		
	•	Added new commands (Reorder list and clean gaps, Save current		
		values to recipe and Restore values from recipe) in Persistent		
		Variables object; Added NJ1005, NJ6001, NJ6011, NJ6101 and NX5100 modules		
AO	_	support;	3.02	09/06/2017
	•	Added options to Operating Mode command in Online menu;		
	•	Added Toggle Breakpoint command to POU when CPU is		
	_	connected;		
	•	Added Placeholders command in context menu of Library Manager object;		
	•	Added Print Preview command in File menu;		
	•	Added quality variables support for IO modules;		
	•	Added quality variables support for MODBUS Symbol Client		
		driver; Added Wink command in Source upload and Source download		
		reace with command in Source upload and Source download		

- Changed tab design for all screens;
- Changed the Synchronism screen in CPU configuration. The new screen allows time zone configuration with SNTP disable;

- Created a new design option to Communication Settings screen;
- Enable or disable redundant objects causes online change download;
- Fixed a problem in compiler using Symbol Configuration and variables with character " ";
- Fixed an issue in PersistenVars that initialized variables when a variable type was changed during an online changes process;
- Fixed problems with source download options;
- Implemented a change to decrease the project archive size when removing objects;
- Implemented a change to show right quantity of recent projects in the start page;
- Implemented a consistency to deny read, write and force invalid indexes of arrays;
- Implemented a process to close all windows when a logoff is done;
- Implemented Export/Import process for Dynamic IP address parameter in NET1;
- Implemented Export/Import to User and Groups of Project Settings command;
- Implemented new options tabs (Device description download, Library download and Proxy Settings) in Options command in Tools menu;
- Implemented new tab Target memory settings in Application object;
- Implemented new tab View in tab option CFC Editor in Options command in Tools menu;
- Implemented new warnings in tab Compile warnings of Project Settings command;
- Implemented Permission for Folders in the Permissions Window;
- Implemented setting 'keep running on CPU stop' to MODBUS Slave and Server
- Implemented the consistency of maximum number of PROFIBUS slave bytes;
- Improvements in Auto Declare command;
- Improvements in Breakpoints command;
- Improvements in Cross Reference List command;
- Improvements in EtherCAT Master Sync Window;
- Improvements in GVL and PersistentVars objects;
- Improvements in Help files;
- Improvements in memory usage during project update;
- Improvements in NX5001 tab DP-Parameters;
- Improvements in online changes process in certain cases
- Improvements in Portuguese Culture Screens;
- Improvements in POU for implicit checks object;
- Improvements in Project Information... command;
- Improvements in Recipe Manager;
- Improvements in Recipe object in Tree view;
- Improvements in Symbol Configuration object;
- Improvements in tab option Device Editor in Options command in Tools menu;
- Improvements in tab option SmartCoding in Options command in Tools menu;
- Improvements in Trace object;
- Improvements in Watch command;
- Included Internal Points configurations in Nexto CPUs;
- Some difference project structure for new projects:
- Changed Wizard Page to choose the language of UserPrg and

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			T
	 StartPrg; New projects are created with four folders called SystemGVLs, SytemPOUs, UserGVLs and UserPOUs; A new POU called StartPrg is created for every new project; A new POU called UserPrg is created for non-redundant projects; Three new GVLs called IOQualities, Module_Diagnostics and System_Diagnostics are created; The Diagnostics GVL is not created for new projects; Removed a wrong icon from Add Gateway Window. Info: This version was built with CODESYS Development System 3.5.7.60. Enabled Redundant PROFIBUS network for NX3020 in Wizard 		
AN	 page; Improvements in Redundant State Machine using only Ethernet I/Os; Improvements to decrease the size of BCS Tools projects. Info: This version was built with CODESYS Development System 3.5.3.141. 	2.08	26/12/2016
AM	 Added NX3005 CPU support; Added the Visualization feature to the tool. This feature enable users to create screens loaded and stored in the CPUs memory with the logic application. Using this feature is possible access created screens trough the web browsers. This feature is enable only for NX3005 CPU: Added Visualization Manager object used to set general configuration of Visualization feature; Added WebVisualization object used to set the specific configuration related with web access in the created screens; Added Visualization objects that is used to create screens to access application information; Added Image Pool object to the application. This object is used to create a list of images that can be used in the Visualization; Added Network Variable List (NVL) feature to tool. The feature enable exchanging variables among controllers trough the CPU network interfaces. Added a new command called Clock Settings that is an easy way to get and set date and time in the CPUs; Added the option of Dynamic IP Address to the CPU Ethernet interface (DHCP Protocol); Added the option Edit Page Size in the CFC Menu; Fixed a problem using Export to CSV feature and the SOE enabled; Fixed a problem related with Symbols in Treeview with Redundant PROIFBUS Networks; Improvements performance in Import from CSV command. Fixed an eventual issue with redundant system startup when using exclusively PROFIBUS slaves from Nexto Series; Changed verification rule of hot-swap mode parameter for Nexto Jet Solution to allow the system to startup even with absent modules. Info: This version was built with CODESYS Development System 3.5.3.141. 	2.07	31/10/2016
AL	 Changed the product label to comply with the new revision of CE directive. Info: This version was built with CODESYS Development System 3.5.3.141. 	2.05	22/06/2016
AK	 Added a new type of license: BIG PROGRAM; Included a new option that allows to use Retain and Persistent variables on Function Blocks; Changed the verification rule of NX3004 maximum current to allow the operation with up to 20W in some specific conditions; 	2.05	25/01/2016

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Added support for NX9010 rack with NX5110; Enhancements on Export Online Variables command; Fixed import/export for projects with PO7078 module; Compilation performance optimization in projects with MODBUS Client and MODBUS Master; Performance optimization on Open Project, Generate Code and Login commands. Info: This version was built with CODESYS Development System 3.5.3.141. Added support for Nexto Jet solution, with the inclusion of the following modules: NJ1001, NJ2001, NJ6000, NJ6010, NJ6000, NJ6100. Added a new PROFIBUS slave device called NX5110_NJ which allows to use Nexto Jet solution modules with the Nexto Series PROFIBUS DP head. Added Support for flexibility of Persistent and Retain memory area sizes. Implemented support to use old Nexto modules with Machine Profile. Enhancements on PIDControl when using it on redundant projects. Changed name and description of parameter Allocate Diagnostic Area According to the Device Description in NX5001 configuration. Consistency of EtherCAT parameters Sync0 and Sync1. Consistency of EtherCAT slave parameter Cycle Time. Improvements in help files about EtherCAT. Removed the diagnostic HofstartCounter from the diagnostic structure of NX3004 CPU. Fixed errors using NX5010 in simulation mode. Changed the text of hot swap options in CPU General Configuration tab. Improvements in Portuguese Help files. Improvements in Progruguese Help files. Improvements in FiberCAT Master Device; Improvements in OPC Server service; Improvements in OPC Server service; Improvements in OPC Server service; Improvements in FiberCAT Master Device; Improvements in FiberCAT Master Device; Improvements in Fiber CAT Master Device; Improvements in Fiber Cate Master Device; Improvements in Fiber Cate Master Device;					
Fixed import/export for projects with PO7078 module; Compilation performance optimization in projects with MODBUS Clent and MODBUS Master; Performance optimization on Open Project, Generate Code and Login commands. Info: This version was built with CODESYS Development System 3.5.3.141. Added support for Nexto Jet solution, with the inclusion of the following modules: NI1001, NI2001, NI5000, NI5010, NI5020, NI5100. Added a support for Nexto Jet solution, with the inclusion of the following modules: NI1001, NI2001, NI5000, NI5010, NI5020, NI5100. Added a new PROFIBUS slave device called NX5110_NI which allows to use Nexto Jet solution modules with the Nexto Series PROFIBUS DP head. Added Export and Import Online Variables command in the Online Menu. Added support for flexibility of Persistent and Retain memory area sizes. Implemented support to use old Nexto modules with Machine Profile. Enhancements on PIDControl when using it on redundant projects. Changed name and description of parameter Allocate Diagnostic Area According to the Device Description in NX5001 configuration. Consistency of EtherCAT parameters Sync0 and Sync1. Consistency of EtherCAT parameters Sync0 and Sync1. Improvements in message texts about synchronization options for EtherCAT configuration. Improvements in head files about EtherCAT. Removed the diagnostic HofStarfCounter from the diagnostic structure of NX3004 CPU. Fixed errors using NX9010 in simulation mode. Changed the text of hot swap options in CPU General Configuration tab. Improvements in Portuguese Help files. Infire This version was built with CODESYS Development System 3.5.3.141. New Features: Added Scan Devices feature for Nexto Series PROFIBUS Master NX5001: Added NX9010 Rack support. Enhancements: Improvements in EtherCAT Master Device: Improvements in OPC Configuration object to remove automatically deleted variables; Improvements in Force Command for bit type: Improvements in Force Command for bit type: Improvements in Force Command for bit type:		•			
Compilation performance optimization in projects with MODBUS Client and MODBUS Master; Performance optimization on Open Project, Generate Code and Login communds. Info: This version was built with CODESYS Development System 3.5.3.141. Added support for Nexto Jet solution, with the inclusion of the following modules: NJ1001, NJ2001, NJ6000, NJ6010, NJ6020, NJ6100. Added a new PROFIBUS slave device called NX5110_NJ which allows to use Nexto Jet solution modules with the Nexto Series PROFIBUS DP head. Added Export and Import Online Variables command in the Online Menu. Added support for flexibility of Persistent and Retain memory area sizes. Implemented support to use old Nexto modules with Machine Profile. Enhancements on PIDControl when using it on redundant projects. Changed name and description of parameter Allocate Diagnostic Area According to the Device Description in NX5001 configuration. Consistency of EtherCAT parameters Sync0 and Sync1. Consistency of EtherCAT slave parameter Cycle Time. Improvements in message texts about synchronization options for EtherCAT configuration. Improvements in message texts about Synchronization options for EtherCAT configuration. Improvements in Sync1010 in simulation mode. Changed the text of hot swap options in CPU General Configuration tab. Improvements in Profiles. Improvements in Profiles. Improvements in Profiles. Info: This version was built with CODESYS Development System 3.5.3.141. New Features: Added Scan Devices feature for Nexto Series PROFIBUS Master NX5001; Added Mx9010 Rack support. Enhancements: Improvements in EtherCAT Master Device; Improvements in OPC Configuration object to remove automatically deleted variables; Improvements in Symbol Configuration object to remove automatically deleted variables; Improvements in Fore Command for bit type; Improvements		•			
Client and MODBUS Master: Performance optimization on Open Project, Generate Code and Login commands. Info: This version was built with CODESYS Development System 3.5.3.141. Added support for Nexto Jet solution, with the inclusion of the following modules: N11001, N12001, N16000, N16010, N16020, N16100. Added a new PROFIBUS slave device called NX5110_NJ which allows to use Nexto Jet solution modules with the Nexto Series PROFIBUS DP head. Added Export and Import Online Variables command in the Online Menu. Added support for flexibility of Persistent and Retain memory area sizes. Implemented support to use old Nexto modules with Machine Profile. Enhancements on PIDControl when using it on redundant projects. Changed name and description of parameter Allocate Diagnostic Area According to the Device Description in NX5001 configuration. Consistency of EtherCAT parameters Sync0 and Sync1. Consistency of EtherCAT slave parameter Cycle Time. Improvements in message texts about synchronization options for EtherCAT. Configuration. Improvements in help files about EtherCAT. Removed the diagnostic HolStartCounter from the diagnostic structure of NX5004 CPU. Fixed errors using NX9010 in simulation mode. Changed the text of hot swap options in CPU General Configuration tab. Improvements in Portuguese Help files. Improvements in Portuguese Help files. Infire This version was built with CODESYS Development System 3.5.3.141. New Features: Added Scan Devices feature for Nexto Series PROFIBUS Master NX5001: Added NN9010 Rack support. Enhancements: Improvements in EtherCAT Master Device; Improvements in OPC Configuration object to remove automatically deleted variables; Improvements in Force Command for bit type; Improvements in Help file		•			
Performance optimization on Open Project, Generate Code and Login commands. Info: This version was built with CODESYS Development System 3.5.3.141. Added support for Nexto Jet solution, with the inclusion of the following modules: N11001, N12001, N16000, N16010, N16020, N16100. Added a new PROFIBUS slave device called NX5110_NJ which allows to use Nexto Jet solution modules with the Nexto Series PROFIBUS DP head. Added Export and Import Online Variables command in the Online Menu. Added support for flexibility of Persistent and Retain memory area sizes. Implemented support to use old Nexto modules with Machine Profile. Enhancements on PIDControl when using it on redundant projects. Changed name and description of parameter Allocate Diagnostic Area According to the Device Description in NX5001 configuration. Consistency of EtherCAT parameters Sync0 and Sync1. Consistency of EtherCAT slave parameter Cycle Time. Improvements in message texts about synchronization options for EtherCAT configuration. Improvements in message texts about synchronization options for EtherCAT configuration. Improvements in place is about EtherCAT. Removed the diagnostic HotStartCounter from the diagnostic structure of NX3004 CPU. Fixed errors using NX9010 in simulation mode. Changed the text of hot swap options in CPU General Configuration tab. Improvements in message texts about Modbus direct mapping limits. Info: This version was built with CODESYS Development System 3.5.3.141. New Features: Added Scan Devices feature for Nexto Series PROFIBUS Master NX5001; Added MX9010 Rack support. Enhancements: Improvements in EtherCAT Master Device; Improvements in EtherCAT Master Device; Improvements in OPC Configuration Screen including new verifications for ARRAY type and a new option to use CPU embedded gateway; Improvements in Symbol Configuration object to remove automatically deleted variables; Improvements in Fore Command for bit type; Improvements in Fore Command for bit type; Improvements in Fore Command fo		•			
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		3.5.3.141.		
		New Features:		
	•	EtherCAT Master:		
		Added EtherCAT Master Device to be inserted as a communication		
		driver;		
	•	Enabled the option Scan Devices to scan automatically the devices		
		connected below the EtherCAT Master.		
	•	Added a new Project Profile called Machine Profile execute fast		
	_	applications.		
	:	Added Nexto Series PROFIBUS DP slaves NX5110 and NX5210:		
	•	Added Nexto Series PROFIBUS slaves into the Configuration and Consumption;		
		Added Nexto Series PROFIBUS slaves into the Bill of Materials;		
		Added limits verifications for Nexto Series PROFIBUS Slaves.		
	•	Added NX3004 CPU support.		
	•	Added NX9000 Rack support.		
AH	•	Added SNTP support in the NX3010 CPU.	2.01	14/05/2015
7111	•	Added a library to read and write PROFIBUS DPV1 commands	2.01	1 1/05/2015
	_	using NX5001 interface.		
	•	Added a new configuration in the CPU screen called Enable I/O Update per Task used to Update I/O in task different than		
		MainTask.		
		Added Export and Import from PLCOpen XML in the Project		
		Menu.		
	•	Added the option called Redundancy without panel to use a		
		redundant system without the Control Panel.		
	•	Automatically vital failure treatment for Ethernet interfaces and		
		MODBUS Client devices in Half Cluster redundancy Projects.		
	•	Enhancements:		
		Improvements in Portuguese Culture Screens; Improvements in Portuguese Help files.		
	•	Info: This version was built with CODESYS Development System		
		3.5.3.141.		
	•	New Features:		
	•	OPC Server;		
	•	Added OPC Server into the installer;		
	•	Added OPC Configuration menu to configure devices to connect		
	_	with OPC Server;		
	•	Added Symbol Configuration object to define variables available for OPC Server access;		
		Application CRC;		
	•	Added CPU Information menu to Access Project and CPU CRC;		
	•	Added a new Diagnostics for Nexto CPUs to access CRC.		
	•	Export to and Import from CSV Files:		
	•	Added support to Export and Import Nexto CPUs parameters;		
	•	Added support to Export and Import Nexto Series Modules		
AG		configuration; Added support to Export and Import Ponto Series PROFIBUS	2.00	30/09/2014
	_	Slaves;		
	•	Added support to Export and Import GVLs into CSV files;		
	•	Added support to Export and Import POUs in ST language;		
	•	Import through selection of multiple CSV files.		
	-	Recipe Manager:		
	-	Added Recipe Manager object;		
	•	Added LibPacine Handler to manage Pacines into the application:		
		Added LibRecipeHandler to manage Recipes into the application; Added a new programming language called CFC Page-Oriented		
	_	language and its editor;		
	-	Added Sync and Freeze commands support for NX5001.		
	•	Added two new hotswap modes for Nexto Series CPUs:		
	•	Disabled;		

	-	Enabled, with startup consistency.		
	•	Windows 8.1 support.		
	•	Enhancements:		
	•	Ponto Series PROFIBUS slaves;		
	•	Added Ponto Series PROFIBUS slaves into the Configuration and		
		Consumption;		
	•	Added a new screen to configure Ponto Series bases;		
	•	Added a new screen to configure Ponto Series expansion;		
	•	Added Ponto Series PROFIBUS slaves into the Bill of Materials;		
	•	Added limits verifications for Ponto Series PROFIBUS Slaves.		
	•	Project Wizard:		
	•	Added option to select bus expansion with redundancy;		
	•	Added option to select redundancy project with OPC		
	_	communication;		
	•	Added a page to create IO modules during the wizard configuration;		
	•	Added Project Profile descriptions;		
	•	Help files improvements and optimizations;		
	_	Optimization in the Nexto Series graphical configuration;		
	_	Added PID_INT and PID_REAL Function Blocks into the LibNextoPID;		
		Improvements in PIDControl Editor to edit main variables and		
	_	retain them values;		
	-	Blocked Project Update from new projects to older versions;		
	-	Changed contact support link URL;		
	•	Improved the consistencies for 24 characters in device identifiers;		
	•	Added a verification to prevent the use of "AT" in redundant		
		objects;		
	•	Changed the behavior to create and download project archive with		
		online change;		
	•	Changed the behavior to create boot application implicit on		
		download and online changes;		
	•	Changed the option Source Download to "Prompt at program		
		Download and online Changes" by default;		
	•	Changed the Option additional files to send "Download information		
		files" by default;		
	•	Improvements in the usability of FBD/IL/LD editor;		
	•	Improvements in the usability of CFC editor.		
	•	Info: This version was built with CODESYS Development System		
		3.5.3.120.		
		New Features:		
	-	Implemented Edit Object (offline) command;		
		Disabled the option "Exclude from build" for CPUs; Added a new analog I/O module: NX6020 – 8 AI RTD Module.		
	_	Enhancements:		
	_	Standardization in comments of modules parameters and in texts		
		used in Modbus mappings;		
		Improvements on saving memory card configuration;		
		Improvements in Import/Export commands;		
	-	Implemented, into the update command, the feature to update		
AF		redundant projects from any version without stops the application;	1.41	18/07/2014
	•	Removed the option to read Modbus data using broadcast slave		
		address because it was an invalid command;		
	-	Updated libraries to improve the accuracy of local bus watchdog		
		detection;		
	-	Fixed problems in Online Change using Modbus drivers;		
	-	Fixed a situation where MODBUS driver could incorrectly indicate		
		NX5000 failure;		
	•	All diagnostics structure library are now visible.		
	•	Info: This version was built with CODESYS Development System		
		3.4.4.25.	1.10	10/01/2011
ΑE	•	New Features:	1.40	13/01/2014

AD	 Changed the installer based in Microsoft InstallShield to installer based in Inno Setup. This change reduces the installation time; Added MODBUS devices with mappings of symbolic variables; Added Import/Export command to CSV files. This command imports or exports the project configurations; Added Import/Export support to the MODBUS Symbolic drivers; Added a new analog I/O module: NX6010 – 8 Ch. Thermocouple Input Module; Added LibLogs with new function block to manage CSV files into the memory card. Enhancements: Improvement to receive MODBUS serial frames before 3.5 characters silence. Info: This version was built with CODESYS Development System 3.4.4.25. Changed the MODBUS mappings limit from 128 to 512. Changed the limit of characters of TAGs from 24 to 255. Changed the limit of characters of Descriptions from 48 to 255. Changed the limit of characters of Devices Names from 24 to 255. Updated compiler version to 3.4.4.27. Updated Libraries. Info: This version was built with CODESYS Development System 	1.33 1.34 1.35	28/10/2013
AC	3.4.4.25. • Updated Libraries.	1.32	01/07/2013
AB	 Enhancements on performance. Corrections in memory overlap verification for Diagnostics Variables. Enhancements on Project Update. Enhancements on Simulation Mode. Added External Events configuration. Correction in memory allocation of retain variables for online changes. 	1.31	12/06/2013
AA	Initial revision.	1.30	12/04/2013