

SENECA Z-PASS2-R IoT Multifunction Controllers Instruction Manual

Home » SENECA » SENECA Z-PASS2-R IoT Multifunction Controllers Instruction Manual

Contents

- 1 SENECA Z-PASS2-R IoT Multifunction
- Controllers
- **2 DIMENSION**
- **3 SIGNALS VIA LED ON FRONT PANEL**
- **4 TECHNICAL SPECIFICATIONS**
- **5 INSTALLATION REGULATIONS**
- **6 Modbus Connection Rules**
- **7 ELECTRICAL CONNECTIONS**
- **8 SETTING THE DIP-SWITCHES**
- 9 PRELIMINARY WARNINGS **10 CONTACT INFORMATION**
- 11 Documents / Resources

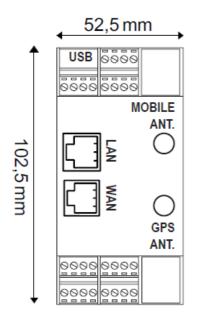


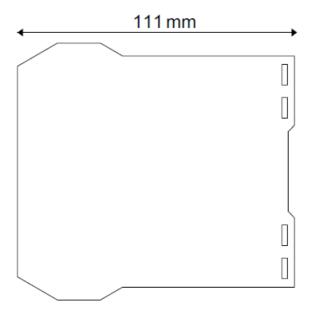
SENECA Z-PASS2-R IoT Multifunction Controllers



DIMENSION

MODULE LAYOUT





SIGNALS VIA LED ON FRONT PANEL

LED	STATUS	LED meaning
	On	Device powered correctly
PWR		

Flashing The module is working correctly		Off	Device not powered
Off System Locked / Booting On Input or output activated Off Input or output deactivated Off Input or output deactivated Off Input or output deactivated VPN On VPN connection active Flashing VPN connection problems On VPN BOX "SERVICE" connection is working correctly Flashing VPN BOX "SERVICE" connection in error Off VPN BOX "SERVICE" connection disabled Incorrect RS485/ RS232 connection Flashing Reception of data packet completed on RS485/ RS232 TX1 / TX2 / TX4 Flashing Transmission of data packet completed on RS485/ RS232 ETH ACT (Green) Flashing Packet transit on Ethernet port ETH LNK (Yellow) On Ethernet port connected On Signal level reporting Flashing (Only Modern adjusted on 4G network Modern adjusted on 4G network Off Modern adjusted on 2G or 3G network Off Modern adjusted on 4G network Flashing Data connection enabled and correctly adjusted On Data connection enabled but in error Off Data connection disabled On GPS signal present Off GPS signal absent On Battery connected and working property Flashing Low or faulty battery Off Battery not in use (UPS not active)		On	Locking system
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Off Data connection disabled On GPS signal present Off GPS signal absent On Battery connected and working properly Flashing Low or faulty battery Off Battery not in use (UPS not active)		On	Data connection enabled and correctly adjusted
GPS On GPS signal present Off GPS signal absent On Battery connected and working properly Flashing Low or faulty battery Off Battery not in use (UPS not active)	DATA	Flashing	Data connection enabled but in error
GPS Off GPS signal absent On Battery connected and working properly Elashing Low or faulty battery Off Battery not in use (UPS not active)		Off	Data connection disabled
Off GPS signal absent On Battery connected and working properly Flashing Low or faulty battery Off Battery not in use (UPS not active)	GPS	On	GPS signal present
BAT See user manual Flashing Low or faulty battery Off Battery not in use (UPS not active)		Off	GPS signal absent
Off Battery not in use (UPS not active)		On	Battery connected and working properly
	BAT See user manual	Flashing	Low or faulty battery
On Device powered correctly		Off	Battery not in use (UPS not active)
		On	Device powered correctly

PWR (MODEM)		
	Off	Device not powered

TECHNICAL SPECIFICATIONS

CERTIFICATIONS	C E LK		
POWER SUPPLY	11 ÷ 40Vdc; 50 ÷ 60Hz; Max absorption: 6 W		
ENVIRONMENTAL C ONDITIONS	Operating temperature: from -25°C to +65°C; Humidity: 10% ÷ 90% non condensing. S torage temperature: from -30°C to +80°C; Degree of protection: IP20		
ASSEMBLY	35mm DIN rail IEC EN60715		
CONNECTIONS	Removable 3.5 mm pitch terminal block, 1.5 mm2 max cable section		
PROCESSOR	ARM 32 bit		
MEMORY	512MB RAM and ≥ 4GB Flash; PUSH-PUSH type slot for micro SD		
FEATURES	Integrated Web Server and update via Web Server		
COMMUNICATION P ORTS	COM1: RS232 / RS485 (on terminals), COM2: RS485 (on terminals or IDC10) COM4: RS485 (on terminals); maximum Baud rate 115kbps; minimum 200 bps; USB H OST type A ETH1 and ETH2 Fast Ethernet RJ45 10/100Mbps, Maximum connection d istance: 100 m CAN (on terminals).		
ISOLATION	RS485 RS232 RS485 USB Comm. Analog Input USB Power Supply T 1500 V~ 1500 V~		

DIGITAL INPUTS OU TPUTS	Number of inputs: 6 max.; Number of outputs: 6 max.; Absorbed current: 3mA @ 12Vd c, 5mA @ 24Vdc. Voltage OFF<4V, ON>8V MAX. current (Vout+) 50mA Voltage (Vext+): 10 ÷ 28Vdc. MAX. current: 200 mA per channel Protect the outputs usi ng a 1.5A fuse as shown in the wiring diagrams
ANALOGUE INPUTS	Voltage 0 ÷ 30Vdc, impedance 200k Ω Current 0 ÷ 25mA, impedance ~ 50 Ω
AUXILIARY VOLTAG E OUTPUT	V AUX: 12Vdc; Max. 50 mA
	Global coverage Model 4G/LTE
4G MODEM FREQU	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/ B19/B20/B25/B26/B28
	LTE-TDD: B38/B39/B40/ B41; WCDMA: B1/B2/B4/B5/B6/B8/B19/GSM: B2/B3/B5/B
OUTPUT POWER	GSM900: 32.75dBm, DCS1800: 29.07dBm, WCDMA: 23.13dBm, 23.27 dBm, LTE: 23. 1dBm, 23.2dBm, 21.7dBm, 23.19dBm, 23.14dBm, 23.7dBm, 23.39dBm.
GNSS	GPS / GLONASS / BeiDou (compass) / Galileo / QZSS
SIM CARD SLOT	Push-push type for mini SIM card 15 X 25 mm

INSTALLATION REGULATIONS

The module has been designed for vertical installation on a DIN 46277 rail. For optimal operation and long life, adequate ventilation must be provided. Avoid positioning ducting or other objects that obstruct the ventilation slots. Avoid mounting modules over heat-generating equipment. Installation in the bottom part of the electrical panel is recommended.

ATTENTION: These are open type devices intended for installation in a final casing/panel that offers mechanical protection and protection against the spread of fire.

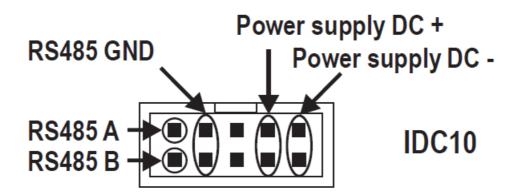
Modbus Connection Rules

- 1. Install the modules in the DIN rail (120 max)
- 2. Connect the remote modules using cables of an appropriate length. The following table shows cable length data:
 - Bus length: maximum length of the Modbus network according to the Baud Rate. This is the length of the cables that connect the two farthest modules.
 - Derivation length: maximum length of a derivation 2 m.
 - For maximum performance, it is recommended to use special shielded cables, designed specifically for data communication.

WARNING: This is a Class A product. In a residential environment this equipment may cause radio interference. In this case, the user may have to take adequate countermeasures.

IDC10 CONNECTOR

Power supply and Modbus interface are available also using the Seneca DIN rail bus, via the IDC10 rear connector, or the Z-PC-DINAL2-17.5 accessory.



Back connector (IDC 10)

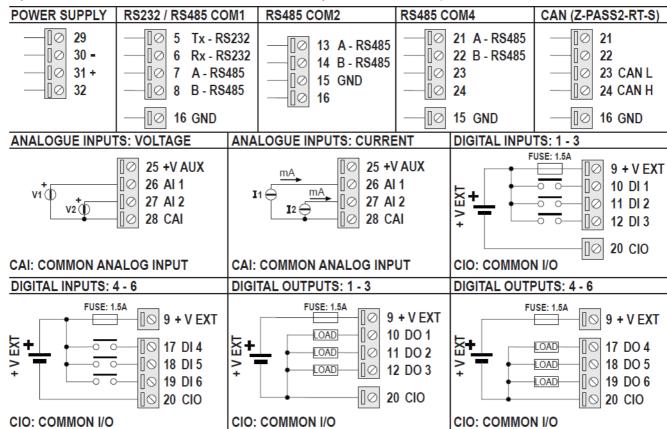
The illustration shows the meanings of the various IDC10 connector pins if signals are to be sent via them directly.

ELECTRICAL CONNECTIONS

CAUTION: Switch the module off before connecting inputs and outputs.

To meet the electromagnetic immunity requirements:

- · use shielded signal cables;
- connect the shield to a preferential instrumentation earth system;
- separate shielded cables from other cables used for power installations (transformers, inverters, motors, etc...).



SETTING THE DIP-SWITCHES

WARNING: The DIP-switch settings are read only at boot time. At each change, perform a restart. For use and settings via DIP-SWITCH SW1 see the user manual available on the website on the web page dedicated to the product.

PRELIMINARY WARNINGS

The word WARNING preceded by the symbol indicates conditions or actions that put the user's safety at risk. The word ATTENTION preceded by the symbol indicates conditions or actions that might damage the instrument or the connected equipment. The warranty shall become null and void in the event of improper use or tampering with the module or devices supplied by the manufacturer as necessary for its correct operation, and if the instructions contained in this manual are not followed.

WARNING: The full content of this manual must be read before any operation. The module must only be used by qualified electricians. Specific documentation is available using the QR-CODE shown on page 1. The module must be repaired and damaged parts replaced by the Manufacturer. The product is sensitive to electrostatic discharges. Take appropriate measures during any operation. Electrical and electronic waste disposal (applicable in the European Union and other countries with recycling). The symbol on the product or its packaging shows the product must be surrendered to a collection centre authorized to recycle electrical and electronic waste





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CONTACT INFORMATION

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Documents / Resources



<u>SENECA Z-PASS2-R IoT Multifunction Controllers</u> [pdf] Instruction Manual Z-PASS2-R IoT Multifunction Controllers, Z-PASS2-R IoT, Multifunction Controllers

Manuals+,