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Red Lion DA10D

Red Lion DA10D Data Acquisition Protocol Converter User Manual

Model: DA10D0C0000000000

INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the Red Lion DA10D Data Acquisition Protocol Converter. The DA10D is designed to facilitate data exchange between various industrial devices using RS232 and RS485 communication protocols.



Figure 1: Red Lion DA10D Data Acquisition Protocol Converter. The device features multiple RJ45 ports for RS232, RS485/RS232, and Ethernet connectivity, along with status indicator LEDs.

SAFETY INFORMATION

Always observe standard safety precautions during installation and operation. Ensure power is disconnected before making any connections. Refer to local electrical codes and regulations.

SETUP AND INSTALLATION

1. Mounting

The DA10D is designed for DIN rail mounting. Ensure a secure and stable mounting location with adequate ventilation.

2. Power Connection

Connect the device to a suitable power supply according to the specifications. Verify correct polarity before applying power.

3. Communication Port Connections

- **RS232 Port:** Connect your RS232 compatible device to the designated RS232 port using an appropriate cable.
- **RS232/RS485 Port:** This port can be configured for either RS232 or RS485 communication. Connect your device based on the required protocol.
- **Ethernet Port:** Connect to your network for configuration and data access.

Refer to the wiring diagrams in the full product documentation for detailed pin assignments.

OPERATING INSTRUCTIONS

1. Initial Power-Up

Once all connections are secure, apply power. Observe the status indicator LEDs for proper boot-up sequence.

2. Configuration

The DA10D is configured via a web interface or specialized software. Access the device's IP address through a web browser to set up communication parameters, data mapping, and protocol conversions.

- Set baud rates, data bits, parity, and stop bits for serial ports.
- Configure IP settings for the Ethernet port.
- Define data tags and protocol translation rules.

3. Data Acquisition

Once configured, the DA10D will begin acquiring data from connected devices and converting it according to the defined rules. Monitor data flow through the web interface or connected HMI/SCADA systems.

MAINTENANCE

The Red Lion DA10D is designed for minimal maintenance. Regular checks include:

- **Visual Inspection:** Periodically inspect the device for any physical damage, loose connections, or signs of overheating.
- **Firmware Updates:** Check the Red Lion website for available firmware updates to ensure optimal performance and security. Follow update instructions carefully.
- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not powering on	No power supply, incorrect wiring, faulty power supply	Verify power connections and supply voltage. Check wiring for correct polarity.

Problem	Possible Cause	Solution
No communication via serial port	Incorrect wiring, wrong protocol settings, faulty cable, device not configured	Check serial port wiring. Verify baud rate, data bits, parity, and stop bits. Test cable. Ensure device is properly configured in the web interface.
Cannot access web interface	Incorrect IP address, network issue, device not powered, firewall blocking access	Confirm device IP address. Check network connectivity. Temporarily disable firewall. Ensure device is powered on.

For further assistance, contact Red Lion technical support.

SPECIFICATIONS

Feature	Detail
Model	DA10D0C000000000
Brand	Red Lion
Type	Data Acquisition Protocol Converter
Serial Ports	(1) RS232, (1) RS232 or RS485
Ethernet Ports	1 (for configuration and data access)
Number of Channels	2
Number of Pins	14
UPC	723707437121
Mounting	DIN Rail

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Red Lion Controls website or contact your authorized distributor. Keep your purchase receipt for warranty claims.

Related Documents - DA10D

	<p>Red Lion G308 Graphic LCD Operator Interface Terminal - Specifications and Manual</p> <p>Comprehensive guide to the Red Lion G308 Graphic LCD Operator Interface Terminal, covering features, specifications, installation, communication protocols (RS232, RS485, Ethernet), software configuration with Crimson, troubleshooting, and warranty information.</p>
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 <p>RAM-6021 Wired Router Hardware and Installation Guide April 2014</p>	<p>Red Lion RAM-6021 Wired Router: Hardware and Installation Guide Comprehensive hardware and installation guide for the Red Lion RAM-6021 Wired Router, covering specifications, mounting, connections, safety, and support information.</p>
	<p>Red Lion CUB5USB USB Programming Option Card: Installation and Configuration Guide A technical bulletin detailing the installation, configuration, and specifications of the Red Lion CUB5USB plug-in card for CUB5 meters, enabling programming via Crimson software. Includes driver installation steps, system requirements, and warranty information.</p>
	<p>Red Lion DITAK 8 Adjustable Timebase 5-Digit Rate Indicator Manual This document provides detailed specifications, installation guidelines, and troubleshooting information for the Red Lion DITAK 8 Adjustable Timebase 5-Digit Rate Indicator. It covers features, electrical specifications, EMC compliance, and programming.</p>
	<p>Red Lion PWJET50 Shallow Well Jet Pump Owner's Manual and Installation Guide This document provides comprehensive owner's manual and installation guidance for the Red Lion PWJET50 Shallow Well Jet Pump. It details safety instructions, installation procedures, operation, maintenance, and troubleshooting for efficient water supply in rural applications.</p>
	<p>Red Lion CUB5P Miniature Electronic 5-Digit Process Meter User Manual Detailed user manual for the Red Lion CUB5P Miniature Electronic 5-Digit Process Meter, covering installation, wiring, programming, and specifications. Learn about its features, options, and operation.</p>

Documents - Red Lion – DA10D



[pdf] User Manual

DA10 fm dianah Inside US 1 877 432 9908 Bulletin No DA10D A Outside in the manual or on equipment must be observed to ensure personal safety and prevent damage either instrument connected it If is used a manner not specified by manufacturer protection provided may impaired Do use unit directly command motors valves other Product Manual redlion net sites default files cdn logic control docs red lion data stations

Inside US: 1 877 432-9908 Outside US: 1 717 767-6511 www.redlion.net Model

DA10D - Protocol Converter and Data Acquisition System Bulletin No. DA10D-A

Drawing No. LP1077 Effective 2018-11-02 CONFIGURED USING CRIMSON 3.1 SOFTWARE TWO SERIAL COMMUNICATION PORTS, 1 RS-232 and 1 RS-232/422/48...

lang:en score:39 filesize: 1.45 M page_count: 8 document date: 2018-11-06



[pdf] Specifications Datasheet

DA10D and DA30D Datasheet cdn logic control docs red lion Datasheets Data Stations

DA10D and DA30D Protocol Conversion and Data Acquisition Systems Red Lion Automation Series Data Acquisition The **DA10D** and **DA30D** Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with plant floor, enterprise or cloud platforms with ease. The benefits of end-to-end connections are clear – whether on the plant floor or in the enterprise, the **DA10D** and **DA30D** Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with plant floor, enterprise or cloud platforms with ease. The benefits of end-to-end connections are clear – whether on the plant floor or in the enterprise, the **DA10D** and **DA30D** Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with plant floor, enterprise or cloud platforms with ease.

lang:en score:39 filesize: 467.07 K page_count: 3 document date: 2021-02-22



[pdf] Specifications Datasheet

CR1000 CR3000 Data Sheet Version A 2 Red Lion Controls DA10D and DA30D m2mgermany de shop images |||

DA10D and DA30D Protocol Conversion and Data Acquisition Systems Red Lion Automation Series Data Acquisition The **DA10D** and **DA30D** Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with plant floor, ...

lang:en score:38 filesize: 485.84 K page_count: 3 document date: 2018-11-05



[pdf] Specifications Datasheet

DA10D and DA30D Data Sheet Version A 2 Red Lion Controls Station Steven Engineering 38 DATA STATION stevenengineering 2019 05 |||

DA10D and DA30D Protocol Conversion and Data Acquisition Systems Red Lion Automation Series Data Acquisition The **DA10D** and **DA30D** Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with plant floor, ...

lang:en score:37 filesize: 649.13 K page_count: 3 document date: 2019-05-28

[\[pdf\] Guide](#)

Access Product Guide Red Lion redlion net sites default files 137 6779 |||

Access Product Guide Data Acquisition PID Controllers RTUs I/O Modules Signal Conditioners Red ... g Crimson software Offers a variety of physical communication ports DATA ACQUISITION Model Number **DA10D** DA30D DA50A DA70A Hazardous Location Certifications UL Class 1, Division 2 N Y Y Y ATEX N N...
lang:en **score:37** filesize: 2.55 M page_count: 19 document date: 2024-07-26

[\[pdf\] Specifications Datasheet Dimension Guide](#)

DA10D and DA30D Data Sheet Version A 2 Red Lion Controls Connect Monitor Control Dimensions in Inches mm redlion net Americas sales@redlion Asia Pacific asia@redlion Europe Middle East 0 sites default files cdn logic control docs red lion data stations

DA10D and DA30D Protocol Conversion and Data Acquisition Systems Red Lion Automation Series Data Acquisition The **DA10D** and DA30D Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with the plant floor, enterprise or cloud platforms with ease. The benefit of not having to re-engineer an application in the plant office, analysts should be able to act on real-time data from virtually any equipment and share with the plant floor, enterprise or cloud platforms with ease. The DA10D and DA30D Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with the plant floor, ...
lang:en **score:35** filesize: 491.47 K page_count: 3 document date: 2018-12-19

[\[pdf\] Guide](#)

Industrial Automation Product Guide NA Red Lion 0 redlion net sites default files 137 6779 |||

Industrial Automation PRODUCT GUIDE HMI Panel Meters Remote Access PID Controllers Data Acquisition ... g Crimson software Offers a variety of physical communication ports DATA ACQUISITION Model Number **DA10D** DA30D DA50A DA70A Hazardous Location Certifications UL Class 1, Division 2 N Y Y Y ATEX N N...
lang:en **score:33** filesize: 11.7 M page_count: 32 document date: 2021-08-25

[\[pdf\] User Manual Press Release](#)

Crimson® 3.1 Updates Theresa Benson Red Lion Crimson Manual 18 2 Data Buffering If this option isn't configured no samples are stored and at reconnection only the latest values will be pushed OPC UA features English redlion net sites default files

Crimson 3.1 Updates January 2019 2017 Red Lion Controls, Inc. All rights reserved. General Notes ... an OPC UA server are numerical values; we believe this should not be a significant impact. Product **DA10D** DA30D Graphite HMIs Graphite Edge Controller CR1000 HMI CR3000 HMI Feature Available Yes Yes...
lang:en **score:33** filesize: 667.81 K page_count: 14 document date: 2019-02-07

DA10D和DA30D协议转换与数据采集系统

red lion

数据采集

DA10D和DA30D协议采集平台具有强大的协议转换和数据采集能力，帮助客户已经济实惠的方式获取有价值的数据。DA10D和DA30D协议转换与数据采集系统，结合了强大的工业数据采集功能，支持RS485、RS232、以太网、Modbus、OPC、MQTT、UAMQTT、IIoT、300 Web、HTTP、HTTPS、CSS、JavaScript、300 UL12、MQTT IIoT、OPC UA、SD/SQL、Crimson C、UR、L、US、LISTE、D、DA10DDA30D、USB、DA10DDA30D - 1、USB、USB 1.1B、USB DA30D - 1、USB、USB 2.0、A 0.5 A、DA...

DA10D 1 RS232 RS232
RS485 2 1500 Vrms 10 100 BASE T X RJ45
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Datasheets 5 |||

DA10D DA30D Data Sheet CN ai Administrator DA10D DA30D

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DA10DDA30D DA10DDA30D DAx0D300 OPC UAMQTT IIoT 300 Web HTTPHTTPS CSSJavaScript 300 UL12 MQTTIIoT OPC UA SD/ SQL Crimson C UR L US LISTE D DA10DDA30D USB USB DA10DDA30D - 1 USB USB 1.1B USB DA30D - 1 USB USB 2.0 A 0.5 A / DA...

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DA10D and DA30D Protocol Conversion and Data Acquisition Systems

Red Lion Automation Series

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Data Acquisition

The DA10D and DA30D Data Stations provide powerful protocol conversion and data acquisition capabilities to unlock valuable data from orphaned or legacy equipment and share with plant floor, enterprise or cloud platforms. The benefit of real-time data acquisition is clear – whether on the plant floor or in a front office, employees should be able to act on real-time data from nearly any equipment source. The DA10D and DA30D Data Stations provide a high performance native support for over 300 industrial drivers, out-of-box OPC UA server capability, and simple configuration and management via a web browser or Crimson C. On the plant floor, the DAx0D Protocol Converter and Data Acquisition platform was designed to act as a key part of any plant's industrial data collection, visualization and integration strategy.

INDUSTRY APPLICATIONS

- Process Automation
- Automotive
- Food & Beverage
- Oil & Gas

PRODUCT HIGHLIGHTS

- Supports over 300 industrial drivers
- Industrial environmental specifications
- Wide operating temperature
- High performance and low latency
- UL Class 1, Div 2 (model dependent)
- Optional real time data, event and security logging with cryptographic signature support

FEATURES & BENEFITS

- Industry leading protocol conversion
 - Communicate with over 300 industrial drivers
 - Supports OPC UA, Modbus and Ethernet devices
 - Manage multi-vendor environments with ease
 - Custom expansion port for select add-on network modules
 - Easy to Use Web Server
 - Provide remote access and control to reduce costly travel
 - Responsive design for a screen display option ideal for field device display
 - Supports HTTPS operation with the provision of certificate and CA support
 - GDSS and standard support
- Provided expansion capabilities
 - Ball and MQTT connectors accelerate IIoT projects with point-and-click simplicity
 - Embedded OPC UA server functionality eliminates the need for external systems
 - SD card slot for data logging and database upload/management
 - Optional SCADA feature simplifies batch and recipe management
 - Configured using Crimson C software

Industrial automation automation CE GS

Industrial Automation PRODUCT GUIDE

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Industrial Automation PRODUCT GUIDE

HMI | Panel Meters | Remote Access | PID Controllers
Data Acquisition | RIUs & VDs | Signal Conditioners

Industrial Automation PRODUCT GUIDE HMI Panel Meters Remote Access PID Controllers Data Acquisition ... g Crimson software Offers a variety of physical communication ports DATA ACQUISITION Model Number DA10D DA30D DA50A DA70A Hazardous Location Certifications UL Class 1, Division 2 N Y Y Y ATEX N N...

lang:en score:26 filesize: 11.58 M page_count: 32 document date: 2021-03-25

Red Lion®
BY FIMS NETWORKS
Industrial Network Controller and Edge Gateway

FlexEdge® Intelligent Edge Automation Platform, powered by Crimson® Configuration Software

HMI

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BrochureDA10D0C000000000 Sistema di acquisizione dati Red Lion DA10D 5 canali USB

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Industrial Network Controller and Edge Gateway FlexEdge Intelligent Edge Automation Platform, powered by Crimson Configuration Software All-in-one edge platform Unmatched data access, maximum flexibility and easy protocol conversion FlexEdge lets organizations take full control of their indu...

lang:en score:24 filesize: 18.8 M page_count: 8 document date: 2025-03-25

INDUSTRIAL AUTOMATION

HMI AND PANEL METERS

HMI OPERATOR PANELS
Graphite, CR3000, CR1000

- Touchscreen models from 4" to 15" available
- Removable front panel with over 300 protocols including OPC UA data model from device point of view
- 4" to 15" touchscreen displays available
- Data via accessible via FTP or Microsoft® SQL Server™
- Send alarm or logged files via email and/or text
- Graphics outdoor ruggedized readable version available

PANEL METERS
PAX2, PAX4, CUB5, PAX Lite

- Award-winning solutions from the industry's leading provider
- Wide range of models, sizes and capabilities
- Wide range of inputs: line voltage, current, process, discrete and frequency
- Field upgradable models available
- Easy to integrate with existing systems
- Modular design allows easy upgrades including software, reprogrammable analog and communication

LARGE LED DISPLAYS
LDD, LDA

- Analog and digital models
- Analogue digital and digital models
- Digital and analog inputs
- Analogue and digital outputs
- Communications options
- 2.2" and 4" models available

SENSORS AND PROCESS CONTROL

SIGNAL CONDITIONERS

- Universal frequency and temperature inputs
- Support control capability and analog output
- Easy to configure and deploy
- Customized signal processing and communication

SENSORS

- Analog sensors include current, temperature and pressure transducers
- Digital sensors include discrete, shaft mount encoders and three-wire encoders
- Digital sensors include length, photoelectric, proximity, magnetic, sensing, pressure and vibration sensors

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Automation Line Card Letter panel meter signal conditioner digital meters process controller protocol converter conditioners hmi large led display crimson 3 paxp cub5 data station plus ethernet switch poe serial to Ethernet rs232 rs485 Red Lion Controls documents mrosupply file |||

INDUSTRIAL AUTOMATION HMI AND PANEL METERS HMI OPERATOR PANELS Graphite, CR3000, CR1000 Touchscreen ... I/O Rugged construction, -40C to 75C temperature range, Hazardous Location HazLoc Certifications **DA10D**, DA30D Supports over 300 industrial drivers Industrial environment specifications: Wide opera...

lang:en score:22 filesize: 2.31 M page_count: 3 document date: 2022-06-29