

Red Lion DA10D

Red Lion DA10D Data Acquisition Protocol Converter User Manual

Model: DA10D0C000000000

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

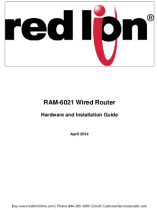




For warranty information and technical support, please refer to the official Red Lion Controls website or contact your authorized distributor. Keep your purchase receipt for warranty claims.

Related Documents - DA10D



[Red Lion G308 Graphic LCD Operator Interface Terminal - Specifications and Manual](#)

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>Red Lion RAM-6021 Wired Router: Hardware and Installation Guide</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>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>



[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...

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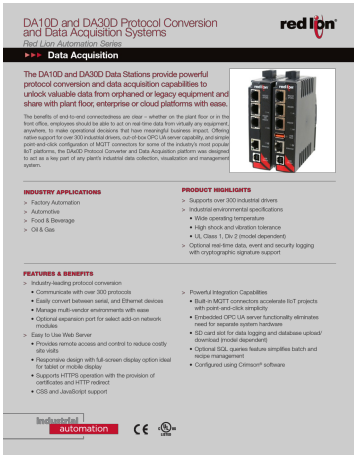


[pdf] Specifications Datasheet

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

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

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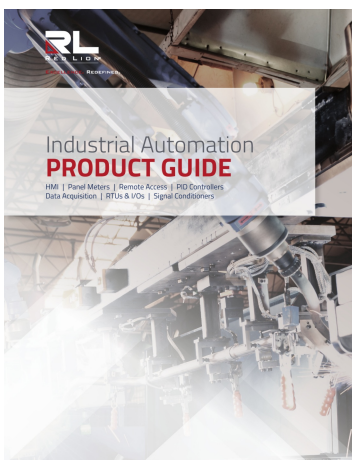


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Industrial Automation PRODUCT GUIDE HMI Panel Meters Remote Access PID Controllers Data Acquisition ... g Crimson software Offers a variety of physical communication ports DATA ACQUISITION Model Number **DA10D** DA30D DA50A DA70A Hazardous Location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

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[pdf] Datasheet

DA10D and DA30D Data Sheet CN ai Administrator DA10D DA30D DA10D 1 RS232 RS232 RS485 2 1500 Vrms 10 100 BASE T X RJ45DA10D Chinese 5cdn logic control docs red lion Datasheets 5 |||

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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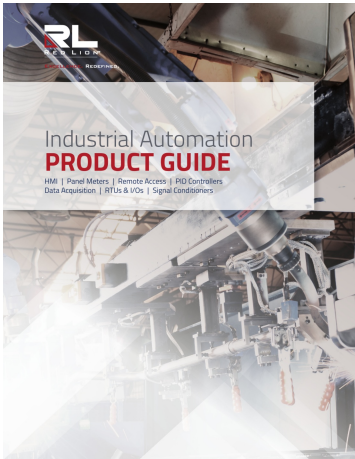


[pdf] Specifications Catalog

Catalog Page Red Lion Controls DA30D0F000000000 Communications Adapter Protocol Conversion Data Acquisition System Gexpro rlcd30d0f000000000 i CD69B66E 4C52 4AB8 B302 F355DB54E2AC rexel cdn products |||

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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...

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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...

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