

[manuals.plus](#) /

- › [Red Lion](#) /
- › [Red Lion Controls PAXI0020 Pax Counter/Rate Meter User Manual](#)

Red Lion PAXI0020

Red Lion Controls PAXI0020 Pax Counter/Rate Meter User Manual

Model: PAXI0020

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Red Lion Controls PAXI0020 Pax Counter/Rate Meter. Please read this manual thoroughly before installing or operating the device. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Improper installation or operation can result in personal injury or damage to the equipment. Always follow local and national electrical codes.

- Disconnect all power before installing or servicing the unit.
- Ensure proper grounding to prevent electrical shock.
- Do not operate the device in environments exceeding its specified temperature and humidity ratings.
- Only qualified personnel should perform installation and maintenance.
- Verify all wiring connections are secure and correct before applying power.

3. PRODUCT OVERVIEW

The Red Lion Controls PAXI0020 is an AC-powered industrial counter and rate meter designed for precise measurement and display in various applications. It features a bright, easy-to-read display and intuitive front-panel controls for configuration and operation.



This image displays the front face of the PAXI0020 unit. It features a large, red seven-segment LED display at the top, currently showing '125005'. Below the display are five push-buttons: 'DSP' (Display), 'PAR' (Parameter), 'F1' (Function 1), 'F2'

(Function 2), and 'RST' (Reset). These buttons are used for navigating menus, adjusting settings, and controlling the meter's functions.

Front Panel Components:

- **Display:** High-visibility red LED display for showing count, rate, and parameter values.
- **DSP Button:** Used to cycle through various display modes or views.
- **PAR Button:** Accesses the parameter menu for configuration and setup.
- **F1 Button:** Function key 1, typically user-programmable or for specific menu navigation.
- **F2 Button:** Function key 2, typically user-programmable or for specific menu navigation.
- **RST Button:** Resets the counter or clears error states.

4. SETUP

4.1. Installation

The PAXI0020 is designed for panel mounting. Ensure adequate space for ventilation and access to wiring terminals. Cut a panel opening according to the dimensions provided in the product's technical specifications sheet (not included in this manual). Secure the unit using the provided mounting hardware.

4.2. Wiring

CAUTION: Ensure power is disconnected before making any wiring connections.

- **Power Supply:** Connect the AC power supply to the designated terminals. Refer to the product label for specific voltage requirements.
- **Input Signals:** Connect your counting or rate input signals (e.g., from sensors, encoders) to the appropriate input terminals. Pay close attention to polarity and signal type (e.g., NPN, PNP).
- **Output Connections:** If using control outputs, connect them to your external devices (e.g., relays, PLCs) as required by your application.
- **Grounding:** Ensure the unit is properly grounded to a protective earth.

After all connections are made, double-check them for correctness and security before applying power.

5. OPERATING INSTRUCTIONS

5.1. Power On

Once properly wired, apply AC power to the unit. The display will illuminate, typically showing the current count or rate value.

5.2. Basic Display Modes (DSP Button)

Press the **DSP** button to cycle through available display modes. These may include:

- Current Count Value
- Current Rate Value
- Peak/Min Values
- Totalized Count

5.3. Parameter Configuration (PAR Button)

Press and hold the **PAR** button to enter the parameter setup menu. Use the **F1** and **F2** buttons to navigate through

parameters and adjust values. The **DSP** button may be used to confirm selections or move to the next digit/setting. Common parameters include:

- Input type and scaling
- Output functions and setpoints
- Decimal point position
- Display update rate
- Security settings

Refer to the detailed programming guide (typically a separate document) for comprehensive parameter descriptions and configuration steps.

5.4. Resetting the Counter (RST Button)

Press the **RST** button to reset the active counter to zero. The function of the RST button may be configurable in the parameter menu (e.g., local reset, remote reset, or disabled).

6. MAINTENANCE

The PAXI0020 is designed for minimal maintenance. Regular inspection and cleaning are recommended.

- **Cleaning:** Use a soft, damp cloth to clean the front panel. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear or corrosion. Ensure the unit's ventilation is not obstructed.
- **Calibration:** The unit is factory calibrated. If recalibration is suspected, contact Red Lion Controls support.

7. TROUBLESHOOTING

If the PAXI0020 is not functioning as expected, review the following common issues:

- **No Display/No Power:**
 - Verify AC power supply is connected and active.
 - Check fuses (if applicable) in the power circuit.
 - Ensure wiring connections are secure.
- **Incorrect Count/Rate:**
 - Check input signal wiring and sensor operation.
 - Verify input scaling and parameter settings in the PAR menu.
 - Ensure the correct input type (e.g., NPN, PNP) is selected.
- **Display Errors:**
 - Consult the product's full technical manual for a list of error codes and their meanings.
 - Try cycling power to the unit.
- **Buttons Unresponsive:**
 - Ensure the unit is not in a locked mode (check security settings in PAR menu).
 - Cycle power to the unit.

If problems persist, contact Red Lion Controls technical support.

8. SPECIFICATIONS

Specification	Value
Model	PAXI0020
Manufacturer	Red Lion Controls
Power Input	AC (Specific voltage range typically on product label)
Item Weight	22 pounds
ASIN	B07CYPVM83
Date First Available	May 8, 2018

9. WARRANTY AND SUPPORT

Warranty information for the Red Lion Controls PAXI0020 is typically provided with the product at the time of purchase or can be obtained directly from Red Lion Controls. For technical assistance, product documentation, or warranty claims, please contact Red Lion Controls customer support.

You can also visit the official Red Lion store for more information:[Red Lion Store on Amazon](#)

© 2023 Red Lion Controls. All rights reserved.

Related Documents - PAXI0020

	<p>Red Lion CUB®5 Miniature Electronic 8-Digit Dual Counter and Rate Indicator Manual</p> <p>Comprehensive user manual for the Red Lion CUB®5, detailing its features as a miniature electronic 8-digit dual counter and rate indicator, including installation, programming, and communication options for industrial applications.</p>
	<p>Red Lion PAX Series 1/8 DIN Analog Input Panel Meters - User Manual</p> <p>Comprehensive user manual for the Red Lion PAX Series 1/8 DIN Analog Input Panel Meters, covering specifications, installation, wiring, programming, troubleshooting, and option cards for models PAXD, PAXP, PAXS, PAXT, and PAXH.</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>

	<p>Red Lion CUB5 Miniature Electronic 8-Digit Dual Counter and Rate Indicator</p> <p>Detailed specifications, installation guide, and programming manual for the Red Lion CUB5 miniature electronic 8-digit dual counter and rate indicator. Features include selectable LCD or LED backlighting, optional relay and serial communication modules, and NEMA 4X/IP65 sealing.</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 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>