

Red Lion Counter Manual



Bulletin No. LPAX-0
Drawing No. LP0489
Released 12/05

MODEL LPAX- 5 DIGIT LARGE PAX DISPLAY FOR ANALOG INPUTS



- LARGE LED DISPLAY READABLE TO 70 FEET
- VARIOUS ANALOG INPUT MODULES:
 - DC VOLTAGE AND CURRENT
 - PROCESS SIGNALS
 - TRUE RMS VOLTAGE AND CURRENT
 - THERMOCOUPLE OR RTD
 - STRAIN GAGE/BRIDGE
- ALARMS, ANALOG OUTPUT, AND COMMUNICATION
- CUSTOM UNITS LABEL WITH BACKLIGHT
- PROGRAMMABLE USER INPUTS
- PROGRAMMABLE FUNCTION KEYS
- UNIVERSAL AC/DC POWERED MODELS
- CRIMSON PROGRAMMING SOFTWARE
- NEMA 4/IP65

GENERAL DESCRIPTION

The LPAX Display is a versatile display that can increase productivity by offering the plant floor or production area a large visual display of their current status. Whether your measurement is temperature, weight, or flow, the LPAX can satisfy your requirement. With the use of a units label and backlighting, the display can be tailored to show the actual engineering unit, which further enhances the display. This LPAX display accepts various analog inputs through the use of input modules (MPAX) which allow the unit to adapt to most any application. The MPAX Modules offer the same features as our highly successful PAX Series Panel Meters. Additional plug-in option cards can add alarms, analog output, and communication bus capabilities, making the LPAX a truly Intelligent Panel Meter.

SAFETY SUMMARY

All safety regulations, local codes and instructions that appear in this and corresponding literature, or on equipment, must be observed to ensure personal safety and to prevent damage to either the instrument or equipment connected to it. If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

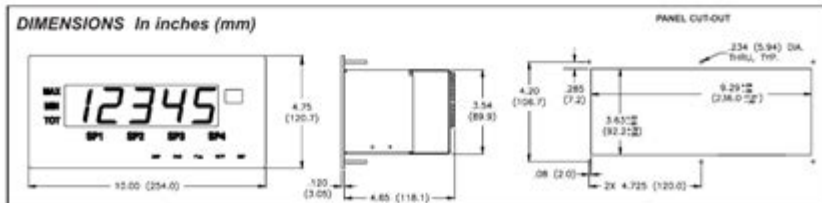
The protective conductor terminal is bonded to conductive parts of the equipment for safety purposes and must be connected to an external protective earthing system.



SPECIFICATIONS

Additional specifications, wiring, programming, and information for the individual MPAX models are contained in the corresponding standard PEX literature. This PAX literature is shipped with the ordered MPAX model.

1. **DISPLAY:** 1.5" (38 mm) Red LED
5-Digit (-19999 to 99999)
 2. **POWER REQUIREMENTS:**
AC Modules: 65 to 250 VAC, 50/60 Hz, 18 VA
DC Modules: 11 to 36 VDC or 24 VAC +10%, 50/60 Hz, 14 W
 3. **INPUT:** Accepts analog input modules, see "Selecting your display components."
 4. **ANNUNCIATORS:**
LPAX0500: MAX, MIN, TOT, SP1, SP2, SP3, and SP4
Optional units label with backlight
 5. **KEYPAD:** Five tactile membrane switches integrated into the front panel
 6. **CERTIFICATIONS AND COMPLIANCES:**
UL Recognized Component, File #E179299, UL61010A-L, CSA 22.2 No. 1010-I
Recognized to US and Canadian requirements under the Component Recognition Program of Underwriters Laboratories, Inc.
UL Listed, File # E137808, UL508, CSA C22.2 No. 14-M95
LISTED by Und. Lab. Inc. to U.S. and Canadian safety standards
Type 4 Enclosure rating (Face only), UL50
IECEE CB Scheme Test Certificate #US8843/UL
CB Scheme Test Report #04ME11209-20041018
Issued by Underwriters Laboratories, Inc.
IEC 61010-1, EN 61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1.
IP65 Enclosure rating (Face only), IEC 529
- ELECTROMAGNETIC COMPATIBILITY**
EMC specifications determined by the MPAX module.



Red Lion Counter Manual is an essential guide for understanding and operating the various counter devices manufactured by Red Lion Controls, a company known for its expertise in industrial automation and control solutions. These counters are widely used in various industries for applications ranging from production counting to process monitoring. In this article, we will explore the different types of Red Lion counters, their features, installation procedures, and troubleshooting tips, providing a comprehensive overview of how to effectively utilize these devices.

Types of Red Lion Counters

Red Lion offers a variety of counters, each designed for specific applications and functionalities. The most common types include:

1. Electromechanical Counters

Electromechanical counters are traditional devices that utilize mechanical components to tally counts. These counters are reliable and often used in environments where digital devices may not be suitable.

2. Digital Counters

Digital counters display numerical values on an electronic screen. They are favored for their ease of use and accuracy and are available in various configurations, including:

- Up Counters: Count upwards from zero to a preset value.
- Down Counters: Count down from a preset value to zero.
- Totalizers: Accumulate counts over time, useful for measuring production totals.

3. Programmable Counters

Programmable counters offer advanced features that allow users to set specific counting parameters, such as reset values and counting direction. These counters can be adapted to various applications, making them versatile tools in any industrial setting.

Key Features of Red Lion Counters

Red Lion counters come equipped with several features that enhance their functionality and ease of use:

- Multiple Input Options: Many Red Lion counters support various input sources, including pulses from sensors, switches, and other devices.
- Display Options: Users can choose from LED, LCD, or backlit displays, ensuring readability under various lighting conditions.
- User-Friendly Interface: Most models feature simple programming options, often with a keypad or buttons for easy navigation.
- Durability: Designed for industrial environments, Red Lion counters typically have robust enclosures that protect against dust, moisture, and other harsh conditions.
- Communication Protocols: Some models support communication protocols such as Modbus or Ethernet, allowing for integration into broader automation systems.

Installation of Red Lion Counters

Proper installation is crucial to ensure that Red Lion counters function effectively. Follow these steps for a successful installation:

1. Gather Required Tools and Materials

Before starting the installation, ensure you have the following:

- Red Lion counter unit
- Mounting hardware (if not included)
- Power supply
- Wiring tools (screwdriver, wire stripper, etc.)
- User manual for reference

2. Determine Installation Location

Select a location that is:

- Easily accessible for maintenance
- Protected from environmental hazards (water, dust, etc.)
- Visible for monitoring

3. Mount the Counter

- Use the provided mounting hardware to secure the counter to a wall, panel, or other suitable surfaces.
- Make sure that the display is oriented for optimal visibility.

4. Wiring Connections

Refer to the user manual for specific wiring instructions. Typically, you will need to:

- Connect the power supply to the appropriate terminals.
- Attach input wires from sensors or switches to the designated input terminals.
- Ensure all connections are secure and insulated to prevent short circuits.

5. Power On and Initial Setup

Once wired, power on the device. Follow the initial setup instructions in the manual to configure settings such as counting mode, display format, and other preferences.

Understanding the User Manual

The Red Lion counter manual is a vital resource for users, providing detailed information on the device's features and functions. Here are some key sections often found in the manual:

1. Specifications

This section outlines the technical details of the counter, including:

- Input voltage requirements
- Counting speed limits
- Environmental ratings (temperature, humidity, etc.)

2. Configuration Settings

Step-by-step instructions on how to configure various settings, such as:

- Setting the counting mode (up, down, or totalizer)
- Adjusting display settings (brightness, contrast)
- Configuring communication settings (if applicable)

3. Maintenance Guidelines

Regular maintenance is essential for ensuring the longevity of Red Lion counters. The manual typically includes:

- Cleaning instructions
- Recommended inspection schedules
- Troubleshooting tips for common issues

4. Troubleshooting

The troubleshooting section provides solutions for common problems, such as:

- Counter not displaying values
- Incorrect counting
- Communication errors with connected devices

Troubleshooting Tips

Even with proper installation and maintenance, users may encounter issues with their Red Lion counters. Here are some troubleshooting tips to help resolve common problems:

1. Counter Not Turning On

- Check the power supply connections for secure and correct wiring.
- Ensure that the power source is functional and providing the correct voltage.

2. Erratic Counting

- Verify that the input signals are stable and not experiencing interference.
- Check the input wiring for damage or loose connections.

3. Display Issues

- Adjust the display settings in the configuration menu.
- Inspect for physical damage to the display unit.

4. Communication Errors

- Ensure proper configuration of communication settings in the manual.
- Check that all connected devices are powered and functioning correctly.

Conclusion

The **Red Lion Counter Manual** serves as a critical resource for users looking to maximize the functionality of their counting devices. Understanding the different types of counters, their key features, and the installation process can help ensure that these devices operate effectively in various industrial applications. By following the guidelines and troubleshooting tips provided in the manual, users can maintain optimal performance and reliability from their Red Lion counters, contributing to enhanced productivity and efficiency in their operations.

Frequently Asked Questions

What is the purpose of the Red Lion counter manual?

The Red Lion counter manual provides detailed instructions on the setup, configuration, and operation of Red Lion counting devices, helping users effectively utilize these tools for various counting applications.

Where can I find the latest version of the Red Lion counter manual?

The latest version of the Red Lion counter manual can typically be found on the official Red Lion Controls website under the support or downloads section.

What types of counters are covered in the Red Lion counter manual?

The Red Lion counter manual covers various types of counters, including digital counters, totalizers, and event counters, along with their specific features and configurations.

Are there troubleshooting tips included in the Red Lion counter manual?

Yes, the Red Lion counter manual includes troubleshooting tips and common issues users may encounter, along with solutions to help resolve them.

Is the Red Lion counter manual available in multiple languages?

Yes, the Red Lion counter manual is often available in multiple languages, depending on the region and the specific product model.

Can I access the Red Lion counter manual in a digital format?

Yes, the Red Lion counter manual is usually available in a PDF format that can be downloaded from the Red Lion website, allowing for easy access and reference.

Does the Red Lion counter manual include installation instructions?

Yes, the Red Lion counter manual includes detailed installation instructions to guide users through the proper setup and mounting of the counting devices.

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Unlock the full potential of your Red Lion counter with our comprehensive manual. Discover how to optimize its features for better performance. Learn more!

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