



PANEL METERS

AWARD-WINNING SOLUTIONS
FROM THE NUMBER ONE
BRAND IN THE INDUSTRY



EXCELLENCE. REDEFINED.



THE RED LION DIFFERENCE

Smart device connectivity, Wi-Fi and Modbus communications.

- ▲ **Display Height:** 0.3" (7.6 mm) to 4" (101 mm)
- ▲ **Digital Meters:** count, rate, time
- ▲ **Analog Meters:** current, process, resistance, strain gage, temperature, voltage
- ▲ **PID Control:** current, process, temperature, voltage
- ▲ **Outputs:** relay, solid state, retransmitted analog
- ▲ **Various communication protocols**
- ▲ **Field-installable** option cards providing flexibility as your business needs change
- ▲ **Easy-to-use** powerful capabilities of Crimson software
- ▲ **Leading Panel Meter Brand:** For 21 consecutive years



2021 Readers' Choice Award

For 21 consecutive years the readers of Control Design Magazine have voted Red Lion the number one panel meter manufacturer in the industry.



PM-50: RED LION'S GRAPHICAL PANEL METER



MODULAR CONSTRUCTION

- ▲ Plug-in Play Modules
- ▲ Upgradeable Firmware
- ▲ Outputs, Power, Comms

DATA ACCESS

- ▲ Wi-Fi
- ▲ Modbus/RS485
- ▲ Ethernet & RS232

EASY FIELD REPLACEMENT

- ▲ Use existing wiring
- ▲ 4.3" → 1/8 DIN Products
- ▲ 3.5" → 1/16 DIN Products
- ▲ Enable Wi-Fi to collect data

SMART DEVICE CAPABILITIES

- ▲ Functionality
- ▲ Programming
- ▲ Connectivity

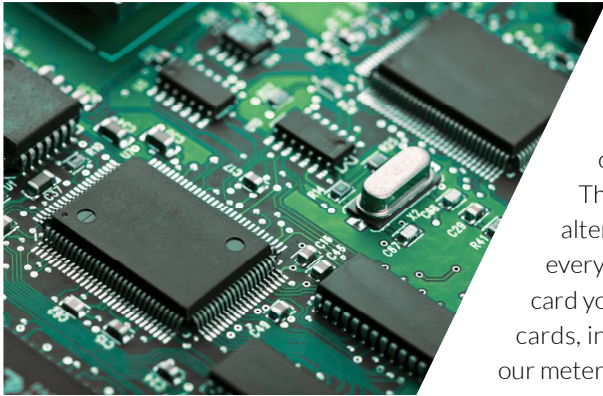
ALARM NOTIFICATION

- ▲ Display Color Change
- ▲ Focuses Attention

SIMPLE PROGRAMMING

- ▲ Start-up Wizard
- ▲ Programming App
- ▲ Web Browser

CUB5 AND PAX METERS: ENDLESSLY ADAPTABLE

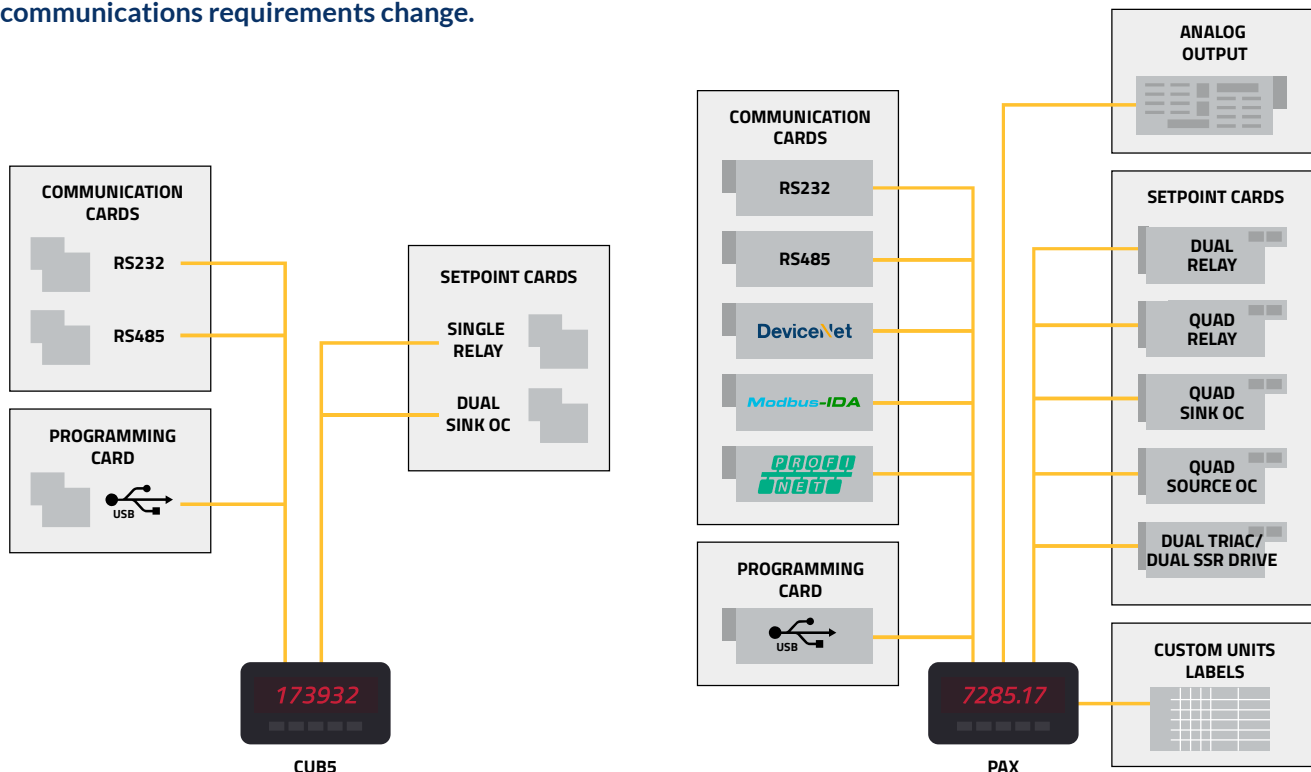


THE LAST METER YOU WILL EVER BUY

Driving down costs means thinking differently. That is why Red Lion's CUB5 and PAX meters offer the capability to add and change option cards as your application and communications requirements change. This field-upgradeable solution saves you money and is the perfect alternative to competitive meters that force you to order a new meter every time conditions change. With our meters, simply order the option card you need for easy, plug-and-play installation. Our wide range of output cards, including communications, set points and retransmitted analog, our meters can handle your challenging applications and changing requirements.

FIELD-UPGRADEABLE PLUG-IN OPTION CARDS

Red Lion's CUB5 and PAX meters offer the capability to add and change option cards as your application and communications requirements change.



PANEL METER SPECIFICATIONS

DIGITAL APPLICATIONS

| | CUB5 | PAX Lite | C48C / C48T | PAX / PAX2 | Large Displays | PM-50 |
|---------------------|-------------------------|-----------------------|-------------|-------------------------|--------------------------|----------|
| Counting/Totalizing | CUB5R000, CUB5B000 | PAXLC600, PAXLC800 | C48C Series | PAXC0020, PAX2D000 | LD Series, LPAX/ EPAX | PM500D0X |
| Preset Count | CUB5R000*, CUB5B000* | PAXLCR00 | C48C Series | PAXI0020*, PAX2D000* | LD Series, LPAX/ EPAX | PM500D0X |
| Batch Count | CUB5R000*, CUB5B000* | N/A | C48C Series | PAXI0020*, PAX2D000* | LD Series, LPAX/ EPAX | PM500D0X |
| Rate Indication | CUB5R000, CUB5B000 | PAXLR000 | N/A | PAXR0020, PAX2D000 | LD Series, LPAX/ EPAX | PM500D0X |
| Rate Control | CUB5R000*, CUB5B000* | PAXLCR00 | N/A | PAXI0020*, PAX2D000* | LD Series, LPAX/ EPAX | PM500D0X |
| Elapsed Timing | CUB5TR00, CUB5TB00 | N/A | C48T Series | PAXTM000 | LD Series, LPAX/ EPAX | N/A |
| Time Control | CUB5TR00*, CUB5TB00* | N/A | C48T Series | PAXTM000* | LD Series, LPAX/ EPAX | N/A |
| Real-Time Clock | N/A | N/A | N/A | PAXCK000 | LPAX/EPAX | N/A |



* Meter requires option card to provide capability.

ANALOG APPLICATIONS






| | CUB5 | PAX Lite | PXU | PAX / PAX2 | Large Displays | PM-50 |
|-----------------------------------|-----------------------|-----------------------|------------|-----------------------|--------------------------|----------|
| AC Current | N/A | PAXLIA00, PAXLIT00 | N/A | PAXH0000 | LPAX/EPAX | N/A |
| AC Voltage | N/A | PAXLVA00, PAXLHV00 | N/A | PAXH0000 | LPAX/EPAX | N/A |
| DC Current | CUB5IR00, CUB5IB00 | PAXLID00, PAXLA000 | N/A | PAXD0000 PAX2A000, | LD Series, LPAX/ EPAX | PM500A0X |
| DC Voltage | CUB5VR00, CUB5VB00 | PAXLVD00, PAXLA000 | N/A | PAXD0000, PAX2A000 | LD Series, LPAX/ EPAX | PM500A0X |
| Process Signals | CUB5PR00, CUB5PB00 | PAXLCL00, PAXLA000 | N/A | PAXP0000, PAX2A000 | LD Series, LPAX/ EPAX | PM500A0X |
| Temperature, RTD/ Thermocouple | CUB5RTR0, CUB5RTB0 | PAXLT000 | N/A | PAXT0000, PAX2A000 | LPAX/EPAX | PM500A0X |
| Strain Gage/Load Cells | N/A | PAXLSG00 | N/A | PAXS0000 | LPAX/EPAX | N/A |
| PID Controller | N/A | N/A | PXU Series | PX2A8H00, PX2A8V00 | N/A | N/A |

* Meter requires option card to provide capability.

PANEL METER SPECIFICATIONS

| | | | | | |
|----------------------------------|---|---|--|--|---|
| |  | |  | | |
| | CUB7 | PAX Lite | CUB5 | C48C / C48T | PAX |
| | Miniature 1/32 DIN | 1/8 DIN Meter | Miniature Intelligent Meter | Miniature 1/16 DIN | 1/8 DIN Intelligent Meter |
| Display Type | 8-digit reflective, red, or green backlight LCD: 0.35" (9 mm) | 5- to 8-digit red LED display: 0.56" (14 mm) | 5- or 8-digit reflective or red/green backlight LCD: 0.46" (12 mm) | 6-digit reflective or red/green backlight LCD: 0.3" (7.6 mm) / 0.2" (5 mm) | 5- or 6-digit red or green LED display: 0.56" (14 mm) |
| Dimension (W x H) | 2" x 1.1" (51 x 28 mm) | 3.80" x 1.95" (97 x 50 mm) | 2.95" x 1.5" (75 x 38 mm) | 1.95" x 1.95" (50 x 50 mm) | 3.80" x 1.95" (97 x 50 mm) |
| Input Capability | Count & time | Count, rate, time, current, voltage, process, strain gage & temperature | Count, rate, time, current, voltage, process & temperature | Count or time | Count, rate, time, current, voltage, process, strain gage and temperature |
| Setpoint Capability | N/A | Dual outputs (some models) | Single or dual outputs* | Single, dual & triple outputs | Dual or quad outputs* |
| Retransmitted Analog | N/A | N/A | N/A | N/A | Yes* |
| Power Source | Lithium battery, 9 - 28 VDC for backlighting | 85 - 250 VAC | 9 - 28 VDC | 85 - 250 VAC or 18 - 36 VDC / 24 VAC | 85 - 250 VAC or 11 - 36 VDC |
| Sensor Excitation | N/A | Yes | N/A | Yes* | Yes |
| Other Features | Front panel reset or remote reset | Custom units overlay for analog meters | 2 option card slots. front panel reset or remote reset | N/A | Custom units overlay for analog meters, 3 option card slots |
| Communications Capability | N/A | N/A | Yes* | Yes | Yes* |
| NEMA 4X/IP65 | Front panel | Front panel | Front panel | Front panel | Front panel |

* Meter requires option card to provide capability.

| | | | | |
|---|---|---|---|---|
|  |  |  |  |  |
| PM-50 | PAX2 Dual Line | PXU | PAX2C Dual Line | LD |
| 1/16, 1/8 DIN | 1/8 DIN Intelligent Meter | 1/16, 1/8, 1/4 DIN | 1/8 DIN Intelligent Meter | Large Display |
| Graphical Display, Full Color Touchscreen, 3.5" or 4.3", Multiple Screens | Line 1 - Backlight 6-digit, 0.71" (18mm) red/orange/green LCD display Line 2 - Backlight 9-digit, 0.35" (8.9 mm) green LCD display | 4-digit dual line red/orange LCD display 1/16 DIN Digit Size: Line 1 - 0.43" (11 mm); Line 2 - 0.27" (7.0 mm) 1/8 DIN Digit Size: Line 1 - 0.47" (12 mm); Line 2 - 0.47" (12 mm) 1/4 DIN Digit Size: Line 1 - 0.87" (22 mm); Line 2 - 0.55" (14 mm) | Vertical and horizontal units with red/orange/green LCD display Vertical: Line 1 - 0.51" (13 mm), Line 2 - 0.44" (11.2 mm) Horizontal: Line 1 - 0.62" (15.7 mm), Line 2 - 0.47" (12 mm) | 5- and 6-digit 2.25" (57 mm) or 4" (101 mm) red LED display |
| Small 95 mm x 82 mm Large 124 mm x 85 mm | 3.80" x 1.95" (97 x 50 mm) | 1/16 DIN: 1.89" x 1.89" (48 x 48mm) 1/8 DIN: 1.89" x 3.77" (48 x 96mm) 1/4 DIN: 3.77" x 3.77" (96 x 96mm) | Vertical: 1.95" x 3.80" (50 x 97 mm) Horizontal: 3.80" x 1.95" (97 x 50 mm) | 12" x 4" (304 x 101 mm) or 16" x 4" (406 x 101 mm) or 20" x 7.87" (508 x 200 mm) or 26" x 7.87" (660 x 200 mm) |
| Universal Input Digital Model - count and rate Analog Model - current, voltage, process, resistance, and temperature | Current, voltage, process, resistance, and temperature | Full PID control for temperature or process | Full PID control for process and temperature | Count, rate, time, current, voltage, process & serial slave |
| Dual SS on-board, Dual or Quad Relay outputs* | Dual or quad outputs* | Single, dual & triple outputs | Dual or quad outputs* | Single or dual outputs |
| Yes* | Yes* | Yes | Yes* | N/A |
| 10 to 30 VDC, AC Power Module optional | Universal power, 50 - 250 VAC and 22 - 250 VDC | 100 - 240 VAC or 24 VAC / 24 VDC | Universal power, 50 - 250 VAC & 22 - 250 VDC | Universal power, 50 - 250 VAC and 22 - 250 VDC |
| +24 VDC @ 50 mA | Yes | No | Yes | Yes |
| Programming/Monitoring App, Web Browser, Smart Device Connectivity | Custom programmable mnemonics, 3 option card slots, | Ramp/soak, remote setpoint and CT input | Ramp/soak, remote setpoint and CT input | N/A |
| Modbus, On-board Wi-Fi, Ethernet and Optional RS232 | Yes* | Yes | Yes* | Yes |
| Front panel | Front panel | IP65 only | Front panel | Sealed case |

* Meter/module requires option card to provide capability.

NEED HELP SELECTING THE RIGHT METER?

Explore our selection of panel meters:
redlion.net



EXCELLENCE. REDEFINED.

Red Lion has been delivering innovative solutions to global markets since 1972 through communication, monitoring and control for industrial automation and networking—enabling companies worldwide to gain real-time data visibility that drives productivity. Red Lion is part of Spectris plc, the productivity enhancing instrumentation and controls company. www.redlion.net

ADLD0097 © 2021 Red Lion Controls, Inc. All rights reserved. Red Lion, the Red Lion logo, N-Tron and Sixnet are registered trademarks of Red Lion Controls, Inc. All other company and product names are trademarks of their respective owners.