# RedLion®
**BY HMS NETWORKS**

# Panel Meter Solutions for Everyday Applications

# Panel Meters
# Large LED Displays

# The Red Lion difference

## From Simple Panel Meters to Smart Device Capability!

- 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

- Smart device connectivity, Wi-Fi and modbus communications

# PM-50: Red Lion's graphical panel meter

Full Color Touchscreen

Multiple Displays

Customizable Screens

## 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
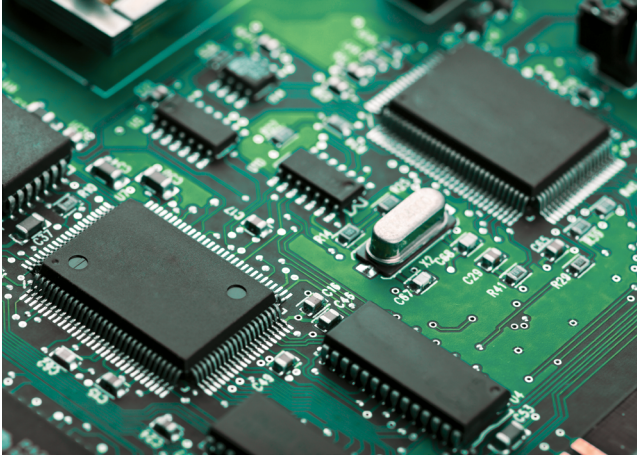
## Simple Programming

- Start-up Wizard
- Programming App
- Web Browser

## Display Options

- Easy-to-read Graphical Displays
- MultipleDisplays Available
- Selectable Widgets
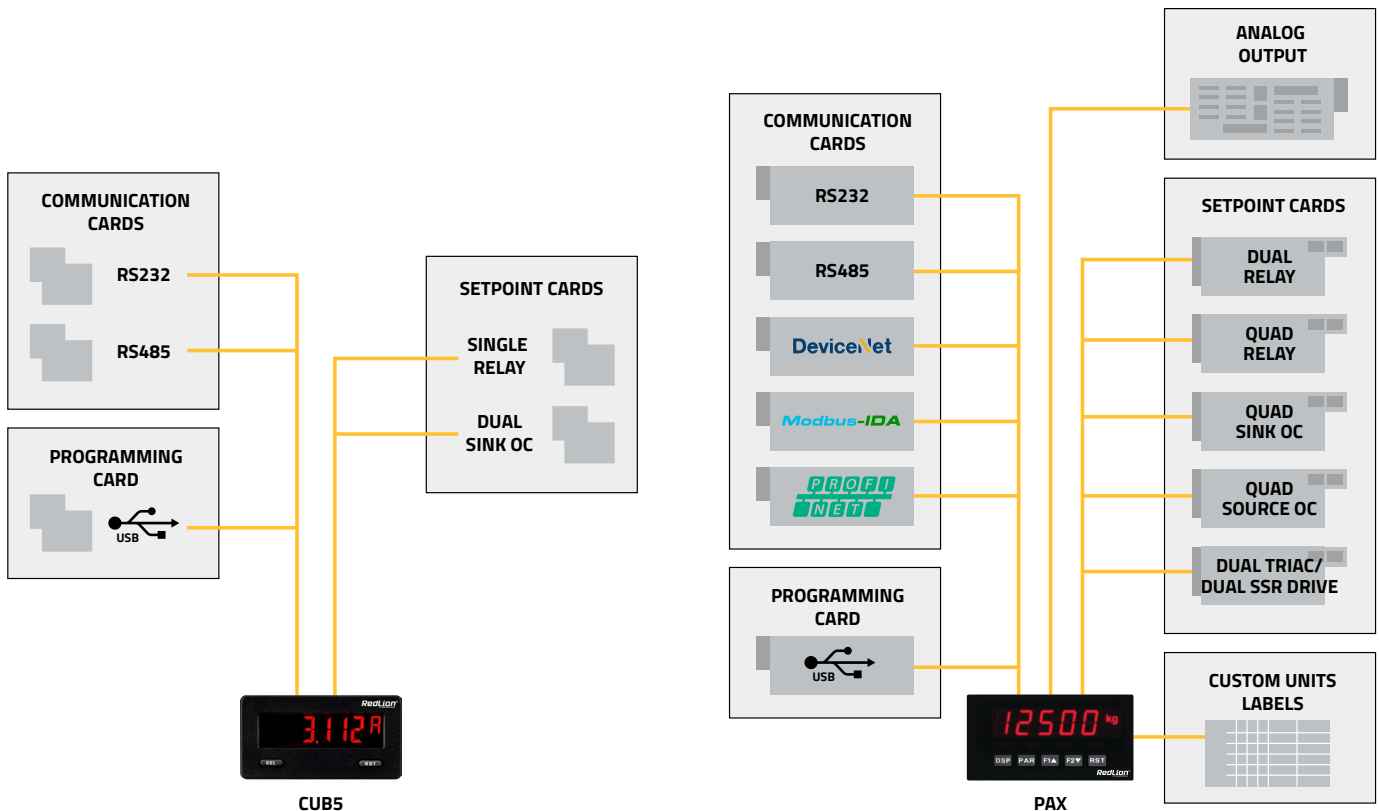
# CUB5 and PAX meters: endlessly adaptable

## 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 or when a relay wears out. 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.



**CUB5**

COMMUNICATION CARDS — RS232, RS485

PROGRAMMING CARD — USB

SETPOINT CARDS — SINGLE RELAY, DUAL SINK OC

**PAX**

COMMUNICATION CARDS — RS232, RS485, DeviceNet, Modbus-IDA, PROFINET

PROGRAMMING CARD — USB

ANALOG OUTPUT

SETPOINT CARDS — DUAL RELAY, QUAD RELAY, QUAD SINK OC, QUAD SOURCE OC, DUAL TRIAC/DUAL SSR DRIVE

CUSTOM UNITS LABELS

# Panel meter specifications

## Digital Applications

| | Counting/ Totalizing | Preset Count | Batch Count | Rate Indication | Rate Control | Elapsed Timing | Time Control | Real-Time Clock |
|---|---|---|---|---|---|---|---|---|
| **CUB5** | CUB5R000, CUB5B000 | CUB5R000*, CUB5B000* | CUB5R000*, CUB5B000* | CUB5R000, CUB5B000 | CUB5R000*, CUB5B000* | CUB5TR00, CUB5TB00 | CUB5TR00*, CUB5TB00* | N/A |
| **PAX Lite** | PAXLC600, PAXLC800 | PAXLCR00 | N/A | PAXLR000 | PAXLCR00 | N/A | N/A | N/A |
| **PAX** | PAXC0020 | PAXI0020* | PAXI0020* | PAXLR000 | PAXLCR00 | PAXTM000 | PAXTM000* | PAXCK000 |
| **Large Displays** | LD Series | LD Series | LD Series | LD Series | LD Series | LD Series | LD Series | N/A |
| **PM50** | PM500D0X | PM500D0X | PM500D0X | PM500D0X | PM500D0X | N/A | N/A | N/A |

* Meter requires option card to provide capability.

## Analog Applications

| | AC Current | AC Voltage | DC Current | DC Voltage | Process Signals | Temperature, RTD/ Thermocouple | Strain Gage/ Load Cells | PID Controller |
|---|---|---|---|---|---|---|---|---|
| **CUB5** | N/A | N/A | CUB5IR00, CUB5IB00 | CUB5VR00, CUB5VB00 | CUB5PR00, CUB5PB00 | CUB5TCB0, CUB5TCR0, CUB5RTR0, CUB5RTB0 | N/A | N/A |
| **PAX Lite** | PAXLIA00, PAXLIT00 | PAXLVA00, PAXLHV00 | PAXLVD00, PAXLA000 | PAXLCL00, PAXLA000 | PAXLCL00, PAXLA000 | PAXLT000 | PAXLSG00 | N/A |
| **PXU** | N/A | N/A | N/A | N/A | N/A | N/A | N/A | PXU Series |
| **PAX** | PAXH0000 | PAXH0000 | PAXD0000 | PAXD0000 | PAXP0000 | PAXT0000 | PAXS0000 | N/A |
| **Large Displays** | N/A | N/A | LD2A05P0 | LD2A05P0 | LD2A05P0 | N/A | N/A | N/A |
| **PM50** | N/A | N/A | PM500A0X | PM500A0X | PM500A0X | PM500A0X | N/A | N/A |

* Meter requires option card to provide capability.

# Panel meter specifications

| | Display Type | Dimension (W x H) | Input Capability | Setpoint Capability | |
|---|---|---|---|---|---|
| **CUB7** Miniature 1/32 DIN | 8-digit reflective, red, backlight LCD: 0.35" (9 mm) | 2" x 1.1" (51 x 28 mm) | Count & time | N/A | |
| **PAX Lite** 1/8 DIN Meter | 5- to 8-digit red LED display: 0.56" (14 mm) | 3.80" x 1.95" (97 x 50 mm) | Count, rate, time, current, voltage, process, strain gage & temperature | Dual outputs (some models) | |
| **CUB5** Miniature Intelligent Meter | 5- or 8-digit reflective or red backlight LCD: 0.46" (12 mm) | 2.95" x 1.5" (75 x 38 mm) | Count, rate, time, current, voltage, process & temperature | Single or dual outputs* | |
| **PAX** 1/8 DIN Intelligent Meter | 5- or 6-digit red LED display: 0.56" (14 mm) | 3.80" x 1.95" (97 x 50 mm) | Count, rate, time, current, voltage, process, strain gage and temperature | Dual or quad outputs* | |
| **PM-50** 1/16, 1/8 DIN | Graphical Display, Full Color Touchscreen, 3.5" or 4.3", Multiple Screens | Universal Input Digital Model - count and rate Analog Model - current, voltage, process, resistance, and temperature | Dual SS on-board, Dual or Quad Relay outputs* | Yes* | |
| **PXU** 1/16, 1/8, 1/4 DIN | 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) | 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) | Full PID control for temperature or process | Single, dual & triple outputs | |
| **LD** Large Display | 5- and 6-digit 2.25" (57 mm) or 4" (101 mm) red LED display | 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) | Count, rate, time, current, voltage, process & serial slave | Single or dual outputs | |

* Meter requires option card to provide capability.

| Retransmitted Analog | Power Source | Sensor Excitation | Other Features | Communications Capability | NEMA 4X/IP65 |
|---|---|---|---|---|---|
| N/A | Lithium battery, 9 - 28 VDC for backlighting | N/A | Front panel reset or remote reset | N/A | Front panel |
| N/A | 85 - 250 VAC | Yes | Custom units overlay for analog meters | N/A | Front panel |
| N/A | 9 - 28 VDC | N/A | 2 option card slots. front panel reset or remote reset | Yes* | Front panel |
| Yes* | 85 - 250 VAC or 11 - 36 VDC | Yes | Custom units overlay for analog meters, 3 option card slots | Yes* | Front panel |
| 10 to 30 VDC, AC Power Module optional | +24 VDC @ 50 mA | Programming/ Monitoring App, Web Browser, Smart Device Connectivity | Modbus, On-board Wi-Fi, Ethernet and Optional RS232 | Modbus, On-board Wi-Fi, Ethernet and Optional RS232 | Front panel |
| Yes | 100 - 240 VAC or 24 VAC / 24 VDC | No | Ramp/soak, remote setpoint and CT input | Yes | IP65 only |
| N/A | Universal power, 50 - 250 VAC and 22 - 250 VDC | Yes | N/A | Yes | Sealed case |

* Meter/module requires option card to provide capability.
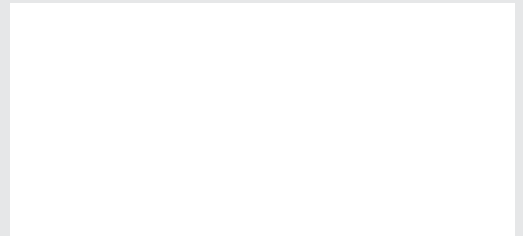
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