



Panel Meters

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



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 23 consecutive years



2023 Readers' Choice Award

For 23 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

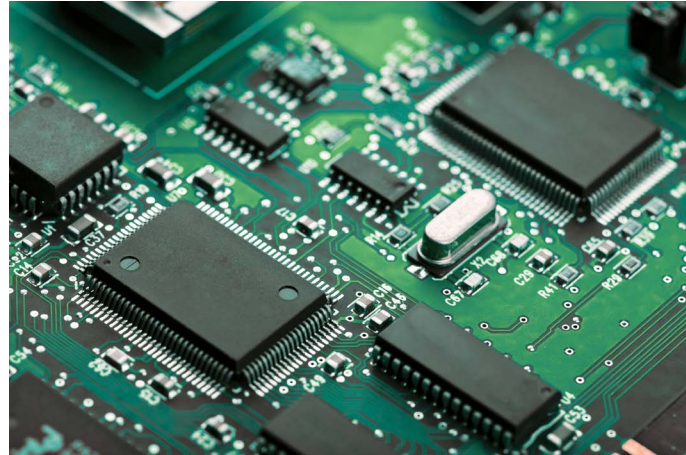
- Display Color Change
- Focuses Attention

SIMPLE PROGRAMMING

- Start-up Wizard
- Programming App
- Web Browser

CUB5 And PAX Meters: Endlessly Adaptable

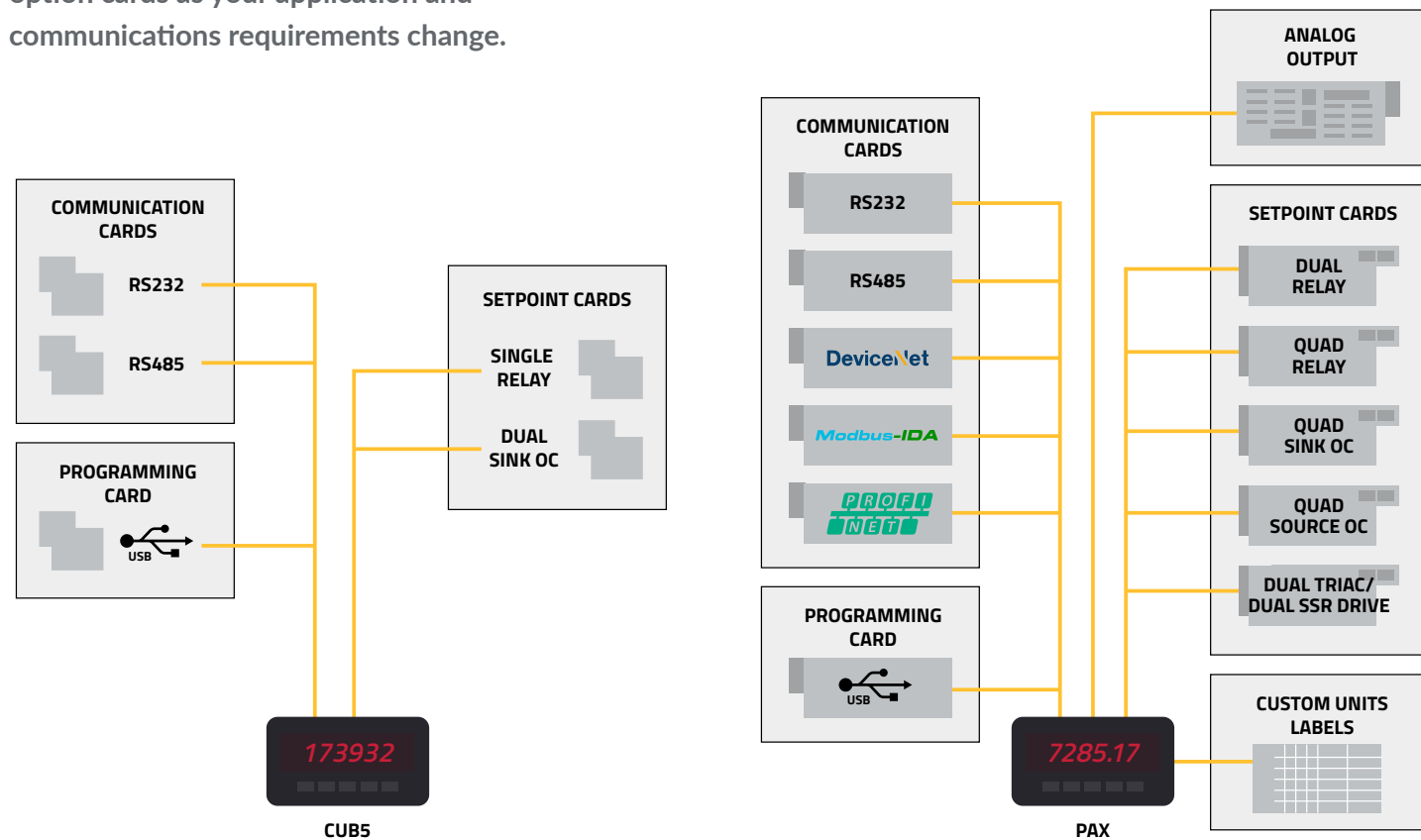
THE LAST METER YOU WILL EVER BUY



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	PAX	Large Displays	PM-50
Counting/Totalizing	CUB5R000, CUB5B000	PAXLC600, PAXLC800	PAXC0020	LD Series, LPAX/EPAX	PM500DOX
Preset Count	CUB5R000*, CUB5B000*	PAXLCR00	PAXI0020*	LD Series, LPAX/EPAX	PM500DOX
Batch Count	CUB5R000*, CUB5B000*	N/A	PAXI0020*	LD Series, LPAX/EPAX	PM500DOX
Rate Indication	CUB5R000, CUB5B000	PAXLR000	PAXR0020	LD Series, LPAX/EPAX	PM500DOX
Rate Control	CUB5R000*, CUB5B000*	PAXLCR00	PAXI0020*	LD Series, LPAX/EPAX	PM500DOX
Elapsed Timing	CUB5TR00, CUB5TB00	N/A	PAXTM000	LD Series, LPAX/EPAX	N/A
Time Control	CUB5TR00*, CUB5TB00*	N/A	PAXTM000*	LD Series, LPAX/EPAX	N/A
Real-Time Clock	N/A	N/A	PAXCK000	LPAX/EPAX	N/A



* Meter requires option card to provide capability.

ANALOG APPLICATIONS



	CUB5	PAX Lite	PXU	PAX	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	LD Series, LPAX/EPAX	PM500A0X
DC Voltage	CUB5VR00, CUB5VB00	PAXLVD00, PAXLA000	N/A	PAXD0000	LD Series, LPAX/EPAX	PM500A0X
Process Signals	CUB5PR00, CUB5PB00	PAXLCL00, PAXLA000	N/A	PAXP0000	LD Series, LPAX/EPAX	PM500A0X
Temperature, RTD/ Thermocouple	CUB5RTR0, CUB5RTB0	PAXLT000	N/A	PAXT0000	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	N/A	N/A	N/A




* Meter requires option card to provide capability.

Panel Meter Specifications

	 CUB7 Miniature 1/32 DIN	 PAX Lite 1/8 DIN 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)
Dimension (W x H)	2" x 1.1" (51 x 28 mm)	3.80" x 1.95" (97 x 50 mm)
Input Capability	Count & time	Count, rate, time, current, voltage, process, strain gage & temperature
Setpoint Capability	N/A	Dual outputs (some models)
Retransmitted Analog	N/A	N/A
Power Source	Lithium battery, 9 - 28 VDC for backlighting	85 - 250 VAC
Sensor Excitation	N/A	Yes
Other Features	Front panel reset or remote reset	Custom units overlay for analog meters
Communications Capability	N/A	N/A
NEMA 4X/IP65	Front panel	Front panel

* Meter requires option card to provide capability.

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

	 PM-50 1/16, 1/8 DIN	 PXU 1/16, 1/8, 1/4 DIN	 LD Large Display
Display Type	Graphical Display, Full Color Touchscreen, 3.5" or 4.3"; Multiple Screens	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)	5- and 6-digit 2.25" (57 mm) or 4" (101 mm) red LED display
Dimension (W x H)	Small 95 mm x 82 mm Large 124 mm x 85 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)	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)
Input Capability	Universal Input Digital Model - count and rate Analog Model - current, voltage, process, resistance, and temperature	Full PID control for temperature or process	Count, rate, time, current, voltage, process & serial slave
Setpoint Capability	Dual SS on-board, Dual or Quad Relay outputs*	Single, dual & triple outputs	Single or dual outputs
Retransmitted Analog	Yes*	Yes	N/A
Power Source	10 to 30 VDC, AC Power Module optional	100 - 240 VAC or 24 VAC / 24 VDC	Universal power, 50 - 250 VAC and 22 - 250 VDC
Sensor Excitation	+24 VDC @ 50 mA	No	Yes
Other Features	Programming/Monitoring App, Web Browser, Smart Device Connectivity	Ramp/soak, remote setpoint and CT input	N/A
Communications Capability	Modbus, On-board Wi-Fi, Ethernet and Optional RS232	Yes	Yes
NEMA 4X/IP65	Front panel	IP65 only	Sealed case

* Meter/module requires option card to provide capability.

NEED HELP SELECTING THE RIGHT METER?

Explore our selection of panel meters:
redlion.net

OUR FOCUS: CONNECTING YOU TO YOUR DATA

At Red Lion, we are focused on giving you access to your most valuable asset: your industrial data. Red Lion products and solutions are engineered to remove the barriers to your industrial data in three critical ways:

Access

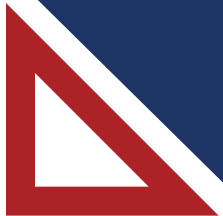
Our data access products provide secure scalable solutions for cloud connectivity, edge intelligence and asset management.

Connect

Our industrial Ethernet switches provide ease of use, security and reliability to meet IT/OT needs for dependable communication.

Visualize

Our industry-leading panel meters and operator panels allow you to acquire, manage, and interact with your data on-site or virtually.



www.redlion.net

Red Lion is focused on being THE Industrial Data Company™. We empower industrial organizations around the world to unlock the value of data by developing and manufacturing innovative products and solutions to access, connect and visualize their information. Red Lion's global manufacturing and support facilities serve customers in factory automation, alternative energy, oil and gas, power and utilities, transportation, water and wastewater industry segments. We provide scalable solutions for cloud connectivity, edge intelligence and asset management, industrial Ethernet switches and industry-leading panel meters and operator panels, to make it easy for companies to gain real-time data visibility that drives productivity. For more information, please visit www.redlion.net

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Connecting You to Your Data