PANEL METERS

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

RL RED LION®

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.
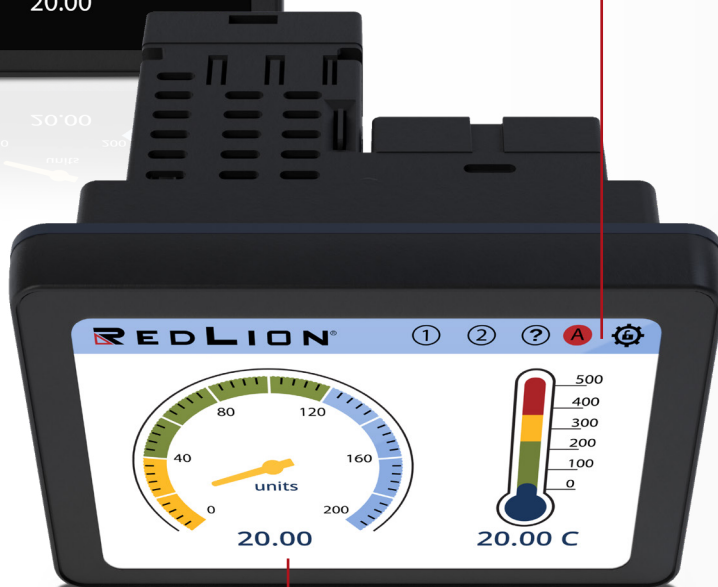
PM-50: RED LION'S GRAPHICAL PANEL METER

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

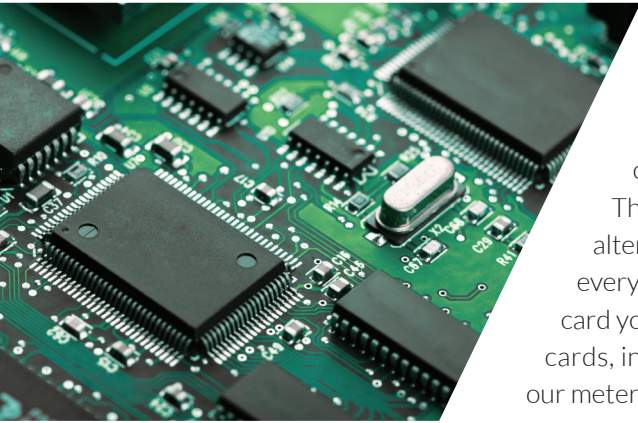## SMART DEVICE CAPABILITIES
- Functionality
- Programming
- Connectivity

ALARM NOTIFICATION
- Display Color Change
- Focuses Attention

SIMPLE PROGRAMMING
- Start-up Wizard
- Programming App
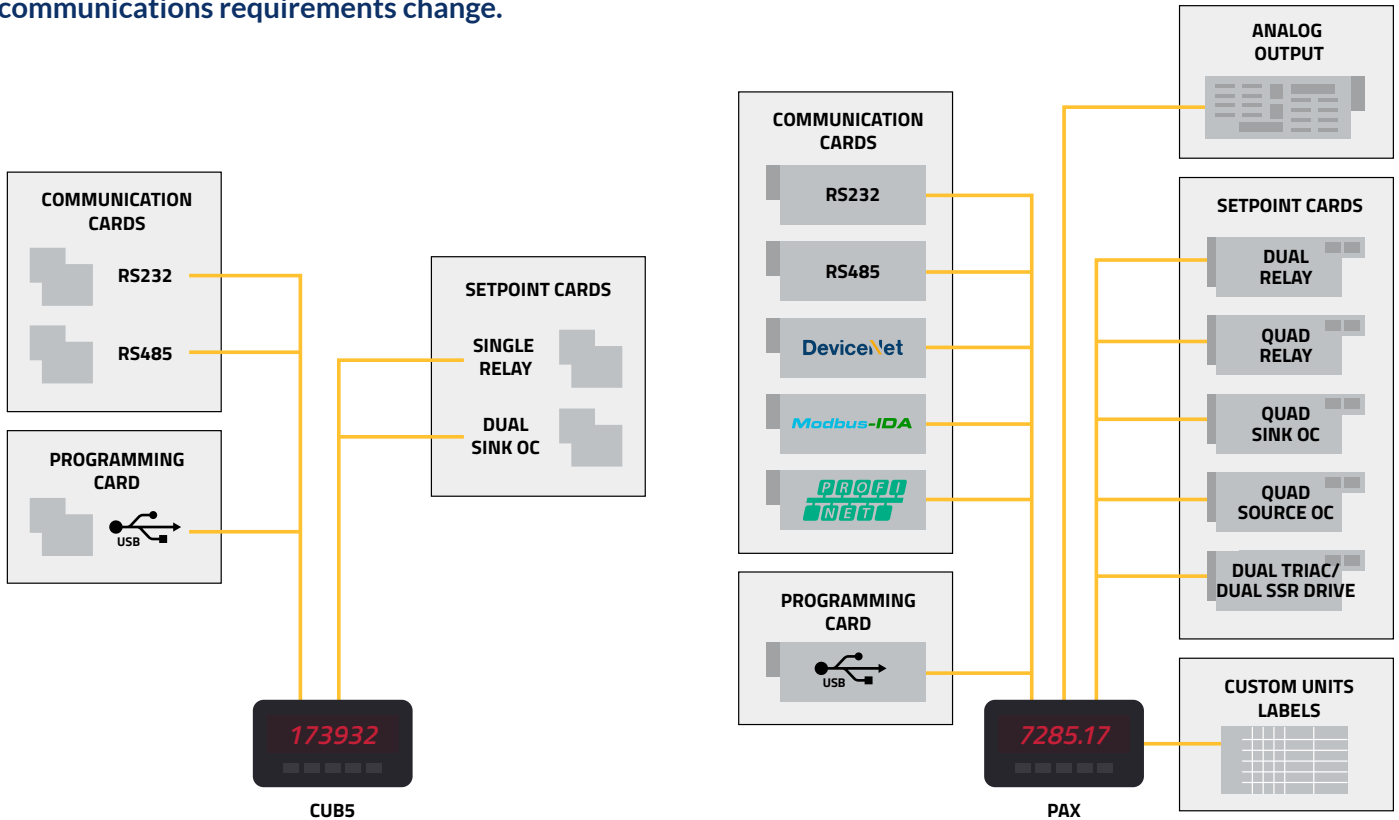- Web Browser

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.

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 **Miniature 1/32 DIN**	PAX Lite **1/8 DIN Meter**	CUB5 **Miniature Intelligent Meter**	C48C / C48T **Miniature 1/16 DIN**	PAX **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

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