Panel Meters
Award-winning solutions from the number one brand in industry

- The widest range of models, sizes and capabilities in the industry
- Display count, rate, time, voltage, current, process, strain gage and temperature
- Basic models to versatile multi-function and field-upgradeable models
- Superior technical support
- Powerful, complimentary Crimson® software
- Custom products available
Red Lion Panel Meters. The most solutions. The #1 brand.

Why do users prefer Red Lion meters?

Red Lion has more high quality solutions for your digital and analog panel meter requirements than any other supplier, with a wider range of models, sizes and capabilities—from our indicators to the versatile PAX process meters that let you add or change capabilities with plug-and-play, field-installable cards. Red Lion’s free Crimson® software offers flexibility, powerful capabilities and intuitive ease. Combine the widest selection with our unmatched quality, speed of delivery and world-class technical support, and you’ll understand why, when the world thinks of panel meters, it thinks of Red Lion.

- Widest range of products in the industry
- Field-installable option cards
- Easy-to-use Crimson software
- Superior quality
- Best delivery
- Unmatched technical support
- Leading Brand*

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

Indication

Low cost, general purpose counters and timers with dedicated functionality and legendary Red Lion quality.

CUB3 Series: General purpose, miniature indicator with 6-digit, 0.2” LCD. Low 3 VDC operating power supplied via internal lithium battery. Reliable integrated circuitry, embedded in a single monolithic, silicon, microchip. 1” X 2” snap-in mounting.

CUB7 Series: Dedicated function 8-digit miniature displays with large 0.35” high backlit LCD. Low voltage and high voltage models. Decimal points and scaling model. Replaceable internal lithium battery. Remote reset; NEMA 4X/IP65.

Control and Indication

Workhorse panel meters offering versatility and functionality, with models available for measuring count, rate, time, voltage, current, temperature, process and strain gage.

CUBS Series: Flexible functionality in a miniature 38 mm x 75 mm package. Field-installable option cards for setpoint and communications. 10 to 29 VDC powered with backlit 0.46” high LCD; NEMA 4X/IP65.

PAX Lite: 1/8 DIN meters for dedicated applications. Simple field setup, easy programming and dual setpoint control. 0.56” LED display; NEMA 4X/IP65.

Advanced Control and Indication

Includes all of the features of the Control and Indication products listed above, plus field-upgradeable option cards for advanced communications and output capabilities.

PAX Series: Versatile 1/8 DIN meter. Add up to 3 field-upgradeable option cards for dual and quad setpoint, retransmitted analog output, RS232/RS485, Modbus, Profibus and DeviceNet® communications; dual count, dual rate, and dual process meters available; NEMA 4X/IP65.

PAX2X: All the features of the PAX Series with a dual color, dual line display and increased update rates.

LD Series: 2.25” and 4” LED displays based on the popular CUB5 series. Single and dual preset models with RS232/RS485 communications; serial slave display version available; universal power supply; NEMA 4X/IP65.

T48 Series: 1/16 DIN temperature PID loop controller with reduced overshoot. Auto-tuning of PID control settings, dual display of temperature and setpoint; accepts up to 10 types of thermocouple or RTD inputs; multiple setpoints; RS485 communications; NEMA 4X/IP65.

C48 Series: 1/16 DIN dual line display for counting or timing. Multiple setpoints; RS485 communications; NEMA 4X/IP65.

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

See our Online Panel Meter Selector at: www.redlion.net
Plug-in flexibility and savings. Extendable solutions change everything.

The last meter you will ever buy.
Red Lion’s CUB5 and PAX Series meters both offer the capability to add and change option cards as your applications and communications requirements change. Red Lion field-upgradeable solutions are the perfect alternative to competitive meters that force you to order a new meter every time conditions change. With Red Lion meters, simply order the option card you need for easy, plug-and-play installation. With our wide range of output cards, including communications, setpoints and retransmitted analog, Red Lion can handle your challenging applications and changing requirements.

Integrate your process.
Extend the reach of Red Lion panel meters by connecting them to a G3 Series HMI, Data Station Plus or a Modular Controller. Share panel meter data with other devices by using one of the 200+ protocols and log panel meter data to an IT-ready file. Use pass-through programming to configure the panel meter remotely, then modify panel meter parameters if configuration changes are required. When connected to a G3 HMI, Data Station Plus or Modular Controller, a panel meter can send alarm or event information via emails or SMS. And you can view data remotely using a web browser for real-time monitoring and control.

Crimson® software: Easy-to-use, easier to value.
Don’t underestimate the value of free. Crimson is the only software in the industry that allows you to program panel meters, temperature controllers, HMIs, gateways, the Data Station Plus, Modular Controllers and large displays—all from the same platform. And it offers portability to let you save your configuration files to program other meters and Red Lion devices. This open, intuitive and menu-driven universal solution guides you quickly through set-up and delivers performance and capabilities that not only rival costly competitor software, but exceed them. No solution is faster, easier or more flexible. At any price.

Integrate your process.
Extend the reach of Red Lion panel meters by connecting them to a G3 Series HMI, Data Station Plus or a Modular Controller. Share panel meter data with other devices by using one of the 200+ protocols and log panel meter data to an IT-ready file. Use pass-through programming to configure the panel meter remotely, then modify panel meter parameters if configuration changes are required. When connected to a G3 HMI, Data Station Plus or Modular Controller, a panel meter can send alarm or event information via emails or SMS. And you can view data remotely using a web browser for real-time monitoring and control.
### Panel Meter Specifications

#### Digital Applications

<table>
<thead>
<tr>
<th>Model</th>
<th>Display Type</th>
<th>Dimension (W x H)</th>
<th>Input Capability</th>
<th>Setpoint Capability</th>
<th>Retransmitted Analog</th>
<th>Power Source</th>
<th>Sensor Excitation</th>
<th>Other Features</th>
<th>Communications Capability</th>
<th>NEMA 4X/IP65</th>
<th>Length of Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUB5</td>
<td>6-Digit LCD, 0.2” (5.1 mm)</td>
<td>2” x 1” (51 x 25 mm)</td>
<td>Count and Time</td>
<td>N/A</td>
<td>N/A</td>
<td>Lithium Battery, 3 VDC</td>
<td>N/A</td>
<td>Front Panel Reset or Remote Reset</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CUB7</td>
<td>8-Digit, Reflective or Red and Green Backlight LCD, 0.35” (9 mm)</td>
<td>2” x 1.1” (51 x 28 mm)</td>
<td>Count and Time</td>
<td>N/A</td>
<td>N/A</td>
<td>Lithium Battery, 9 to 28 VDC for Backlighting</td>
<td>N/A</td>
<td>Front Panel Reset or Remote Reset</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PAX Lite</td>
<td>5- or 8-Digit, Reflective or Red and Green Backlight LCD, 0.46” (12 mm)</td>
<td>2.99” x 1.57” (75 x 38 mm)</td>
<td>Count, Rate, Time, Current, Voltage, Process, Strain Gage &amp; Temperature</td>
<td>Single or Dual Outputs</td>
<td>Dual Outputs (Some Models)</td>
<td>Universal Power, 50 to 250 VAC or 220 to 250 VDC</td>
<td>Yes</td>
<td>Custom Units Overlay for Analog Meters</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>T48/P48</td>
<td>4-Digit, Dual Line or Red/Green LED Display</td>
<td>3.88” x 1.90” (95 x 50 mm)</td>
<td>Temperature or Process</td>
<td>Single, Dual &amp; Triple Outputs</td>
<td>Single, Dual &amp; Triple Outputs</td>
<td>85 to 250 VAC or 18 to 36 VDC/240 VAC</td>
<td>Yes</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>C48/C48T</td>
<td>6-Digit, Reflective or Red and Green Backlight LCD, 0.3” (7.6 mm)</td>
<td>1.95” x 1.95” (50 x 50 mm)</td>
<td>Count, Rate, Time, Current, Voltage, Process and Serial Slave</td>
<td>Single or Dual Outputs</td>
<td>Single or Dual Outputs</td>
<td>85 to 250 VAC or 18 to 36 VDC/240 VAC</td>
<td>Yes</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>LD Series</td>
<td>5- and 6-Digit, 2.25” (57 mm)</td>
<td>0.56” (14 mm)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>12” x 4” (305 x 101 mm) or 20” x 7” (508 x 200 mm) or 26” x 7” (660 x 200 mm)</td>
<td>N/A</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

#### Analog Applications

<table>
<thead>
<tr>
<th>Model</th>
<th>Display Type</th>
<th>Dimension (W x H)</th>
<th>Input Capability</th>
<th>Setpoint Capability</th>
<th>Retransmitted Analog</th>
<th>Power Source</th>
<th>Sensor Excitation</th>
<th>Other Features</th>
<th>Communications Capability</th>
<th>NEMA 4X/IP65</th>
<th>Length of Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUB5</td>
<td>5- or 6-Digit, Reflective or Red and Green Backlight LCD, 0.46” (12 mm)</td>
<td>2” x 1.1” (51 x 28 mm)</td>
<td>Count, Rate, Time, Current, Voltage, Process, Strain Gage &amp; Temperature</td>
<td>Single or Dual Outputs</td>
<td>Dual Outputs (Some Models)</td>
<td>Universal Power, 50 to 250 VAC or 220 to 250 VDC</td>
<td>Yes</td>
<td>Custom Units Overlay for Analog Meters</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PAX Lite</td>
<td>5- or 6-Digit, Reflective or Red and Green Backlight LCD, 0.3” (7.6 mm)</td>
<td>1.95” x 1.95” (50 x 50 mm)</td>
<td>Temperature or Process</td>
<td>Single or Dual Outputs</td>
<td>Single or Dual Outputs</td>
<td>85 to 250 VAC or 18 to 36 VDC/240 VAC</td>
<td>Yes</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PAX</td>
<td>6-Digit, Reflective or Red and Green Backlight LCD, 0.3” (7.6 mm)</td>
<td>1.95” x 1.95” (50 x 50 mm)</td>
<td>Count, Rate, Time, Current, Voltage, Process and Serial Slave</td>
<td>Single or Dual Outputs</td>
<td>Single or Dual Outputs</td>
<td>85 to 250 VAC or 18 to 36 VDC/240 VAC</td>
<td>Yes</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Large Displays</td>
<td>5- and 6-Digit, 2.25” (57 mm)</td>
<td>0.56” (14 mm)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>12” x 4” (305 x 101 mm) or 20” x 7” (508 x 200 mm) or 26” x 7” (660 x 200 mm)</td>
<td>N/A</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

#### Advanced Control & Indication

<table>
<thead>
<tr>
<th>Model</th>
<th>Display Type</th>
<th>Dimension (W x H)</th>
<th>Input Capability</th>
<th>Setpoint Capability</th>
<th>Retransmitted Analog</th>
<th>Power Source</th>
<th>Sensor Excitation</th>
<th>Other Features</th>
<th>Communications Capability</th>
<th>NEMA 4X/IP65</th>
<th>Length of Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAX</td>
<td>5- or 6-Digit, Reflective or Red and Green Backlight LCD, 0.46” (12 mm)</td>
<td>2” x 1.1” (51 x 28 mm)</td>
<td>Count, Rate, Time, Current, Voltage, Process, Strain Gage &amp; Temperature</td>
<td>Single or Dual Outputs</td>
<td>Dual Outputs (Some Models)</td>
<td>Universal Power, 50 to 250 VAC or 220 to 250 VDC</td>
<td>Yes</td>
<td>Custom Units Overlay for Analog Meters</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PAX2 Dual Line</td>
<td>5- or 6-Digit, Reflective or Red and Green Backlight LCD, 0.3” (7.6 mm)</td>
<td>1.5” (38 mm) or 4” (101 mm)</td>
<td>Temperature, Process, and Serial Slave</td>
<td>Dual or Quad Outputs</td>
<td>Dual or Quad Outputs</td>
<td>85 to 250 VAC or 11 to 36 VDC</td>
<td>Yes</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>LPAX/EPAX</td>
<td>6-Digit, 0.7” (17.8 mm) Top Line, 0.34” (8.6 mm) Bottom</td>
<td>10” x 4.75” (254 x 121 mm) or 24.77” x 7.2” (629 x 183 mm)</td>
<td>Current, Voltage, Process, Strain Gage &amp; Temperature</td>
<td>Dual or Quad Outputs</td>
<td>Dual or Quad Outputs</td>
<td>85 to 250 VAC or 11 to 36 VDC</td>
<td>Yes</td>
<td>Custom Units Overlay</td>
<td>Yes</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

#### Additional Features

- **Indication**: N/A
- **Control & Indication**: N/A
- **Advanced Control & Indication**: N/A

**Go to our website for our online panel meter selector**

[www.redlion.net](http://www.redlion.net)
Add our sensors and enclosures for a complete system

- Encoders
- Plastic Enclosures
- Pressure Transducers
- Current Transducers
- Magnetic Pickups
- Metal Enclosures
- Proximity Sensors
- Panels and Adapters
- Temperature Sensors
- Length Sensors

*For more information on the G3, DSP and Modular Controller Series, please refer to the respective product brochure.