PAX2A—the next generation in panel meters.

From its dual line display to its universal functionality, the PAX2A is packed full of features that set it apart from any other panel meter. The input, total, min., max. or setpoints can be displayed on the 0.7” high 6-digit main LCD display. The main display also offers three programmable, easy-to-read colors: red, orange and green. The color change can be tied to the setpoints, providing the operator with a visual display of changing conditions in the application. And that’s not all! A second display line is a 0.35” high 9-digit, green LCD that can be programmed for any of the above parameters as well. The 9-digit display accommodates totalizing applications that easily exceed the normal 6-digit displays. In addition to the dual displays, the meter also offers a 3-digit programmable custom unit indicator.

Beyond the display, the PAX2A provides the maximum in application flexibility, allowing users to stock just one meter for numerous applications. Featuring universal input, the same meter accepts DC current, DC voltage, process signal, and thermocouple and RTD temperature sensor inputs. Plus, the PAX2A features a universal power input. Whether it’s 50 to 250 VAC or 21.6 to 250 VDC, just hook it up.

With its dual display and versatile functionality, the PAX2A delivers an ideal solution for applications that require two parameters to be visualized at the same time. For instance, the PAX2A can read a flow rate through a pipeline while simultaneously totalizing the gallons, or indicate the temperature of an oven while also displaying the setpoint value.

Take the dual line display with color change capability and add the universal capability and other user-friendly features, and you will understand why the PAX2A represents the next generation of panel meters.
Panel Meter Specifications

**DISPLAY:** Positive image LCD
- Top Line: 6-digit, 0.71” (18 mm) tri-color backlight (red, green or orange)
  - Display range: -199,999 to 999,999
- Bottom Line: 9 digit, 0.35” (8.9 mm) green backlight
  - Display range: -199,999,999 to 999,999,999

**POWER:**
- AC Power: 50 to 250 VAC, 50/60 Hz, 14 VA
- DC Power: 21.6 to 250 VDC, 8 W

**ANNUNCIATORS:**
- Backlight color: Red
  - 1 - setpoint alarm 1 is active
  - 2 - setpoint alarm 2 is active
  - 3 - setpoint alarm 3 is active
  - 4 - setpoint alarm 4 is active
- Units Label: programmable 3 digit units annunciator with tri-color backlight (red, green or orange)

**KEYPAD:** 2 programmable function keys, 4 keys total

**A/D CONVERTER:** 24 bit resolution

**UPDATE RATES:**
- A/D conversion rate: programmable 5 to 160 readings/sec.

**INPUT CAPABILITIES:**
- Current Input: ± 250 μADC, ± 2.5 mADC, ± 25 mADC, ± 250 mADC, and ± 2 ADC
- Voltage Input: ± 250 mVDC, ± 2.0 VDC, ± 10 VDC, ± 25 VDC, ± 100 ADC, and ± 200 VDC
- RTD Input: 1000 Ω (Alpha 0.00385 and 0.00392), and 10Ω (Alpha 0.00672) and 100 Copper (Alpha 0.00427)
- Resistance Input: 1000Ω, 1,000Ω, and 10 KΩ

**EXCITATION POWER:** Jumper selectable
- Transmitter Power: +18VDC @ 50mA
- Reference Voltage: +2VDC, +/- 2%
- Reference Current: 1 mAADC, +/- 2%

**TOTALIZER:**
- Time Base: second, minute, hour or day
- Batch: Can accumulate (gate) input display from a user input
- Time Accuracy: 0.01% typical
- Decimal Point: 0 to 0.0000
- Scale Factor: 0.001 to 65,000
- Low Signal Cut-out: -19,999 to 99,999
- Total: 9 digits, display alternates between high order and low order readouts

**CUSTOM LINEARIZATION:**
- Data Point Pairs: Selectable from 2 to 16
- Display Range: -19,999 to 99,999
- Decimal Point: 0 to 0.0000
- Ice Point Compensation: user value (0.00 to 650.00 μV/C)

**MEMORY:** Nonvolatile E2PROM memory retains all programmable parameters and display values

**USER INPUTS:** Two programmable user inputs

**ENVIRONMENTAL CONDITIONS:**
- Operating Temperature Range: 0 to 50 °C
- Storage Temperature Range: -40 to 60 °C
- Humidity: 0 to 85% max. RH non-condensing
- Altitude: Up to 2000 meters

**CERTIFICATIONS AND COMPLIANCES:**
Refer to EMC Installation Guidelines section of the bulletin for additional information

**CONNECTIONS:** High compression cage-clamp terminal block

**CONSTRUCTION:** This unit is rated for NEMA 4X/IP65 indoor use; IP20 Touch safe; Installation Category II, Pollution Degree 2; One piece bezel/case; Flame resistant; Synthetic rubber keypad and mounting clip included

**WEIGHT:** 8 oz. (226.8 g)

**ORDERING INFORMATION:**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
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</thead>
<tbody>
<tr>
<td>PAX2A</td>
<td>Dual Line Display Process Meter</td>
<td>PAX2A000</td>
</tr>
<tr>
<td>PAXCDS</td>
<td>Dual Setpoint Relay Output Card</td>
<td>PAXCDS10</td>
</tr>
<tr>
<td></td>
<td>Quad Setpoint Relay Output Card</td>
<td>PAXCDS20</td>
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<tr>
<td></td>
<td>Quad Setpoint Sinking Open Collector Output Card</td>
<td>PAXCDS30</td>
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<td>Quad Setpoint Sourcing Open Collector Output Card</td>
<td>PAXCDS40</td>
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<tr>
<td>PAXCDC</td>
<td>RS485 Serial Communications Card with Terminal Block</td>
<td>PAXCDC10</td>
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<td></td>
<td>Extended RS485 Serial Communications Card with Dual RJ11 Connector</td>
<td>PAXCDC1C</td>
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<td></td>
<td>RS232 Serial Communications Card with Terminal Block</td>
<td>PAXCDC20</td>
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<td></td>
<td>Extended RS232 Serial Communications Card with 9 Pin D Connector</td>
<td>PAXCDC2C</td>
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<td>DeviceNet Communications Card</td>
<td>PAXCDC30</td>
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<td>Profibus-DP Communications Card</td>
<td>PAXCDC50</td>
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<tr>
<td>PAXCDL</td>
<td>Analog Output Card</td>
<td>PAXCDL10</td>
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**DIMENSIONS:** In inches (mm)

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<tr>
<th>DIMENSION</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>Height</td>
<td>1.96 (49.53)</td>
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<tr>
<td>Width</td>
<td>3.80 (95.52)</td>
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<tr>
<td>Depth</td>
<td>0.10 (2.54)</td>
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<tr>
<td>Overall Width</td>
<td>4.134 (105)</td>
</tr>
</tbody>
</table>

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