Dual Line Digital Input Panel Meter

Model PAX2D

- ■ **Count, Dual Count, Rate, and Dual Rate**
- ■ **Math Function Capability**
- ■ **Universal Power Supply: 50 to 250 VAC or 21.6 to 250 VDC**
- ■ **Built-in USB Programming/Virtual Comms Port**
- ■ **Setpoints: Dual or Quad Relay; Quad Sinking or Sourcing**
- ■ **Retransmitted Analog Output**
- ■ **Communications: Modbus Protocol; RS232, RS485, DeviceNet, and Profibus**

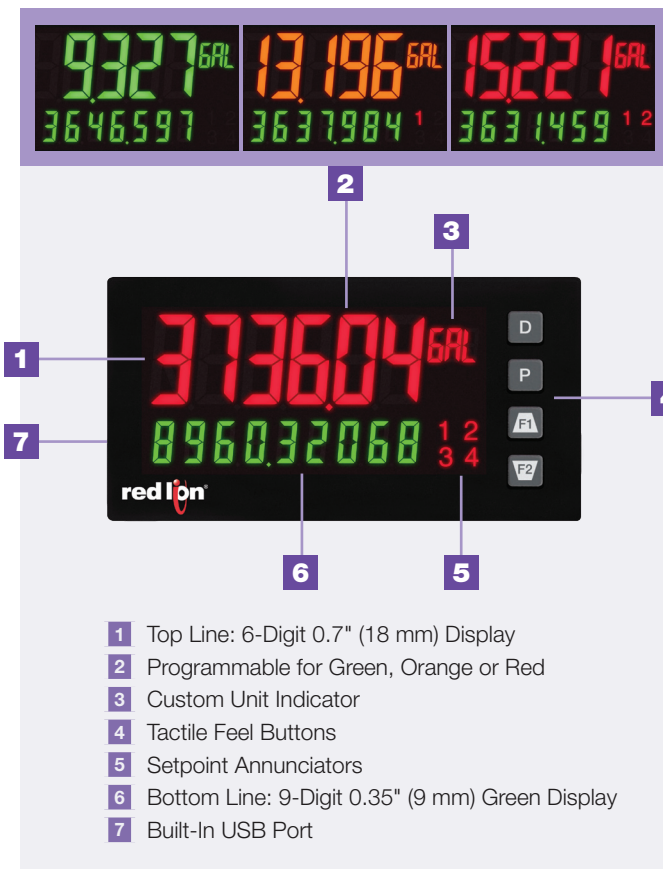|	
1	Top Line: 6-Digit 0.7" (18 mm) Display
2	Programmable for Green, Orange or Red
3	Custom Unit Indicator
4	Tactile Feel Buttons
5	Setpoint Annunciators
6	Bottom Line: 9-Digit 0.35" (9 mm) Green Display
7	Built-In USB Port

PAX2D—the next generation in panel meters.

With its dual line capability, users can easily monitor two count displays, or two rate displays, or any combination. Line one consists of a 0.7" high 6 digit LCD display that can be programmed to show Counters A, B, or C; Rate A, B, or C; or the Hi or Lo values. The main display also offers three programmable, easy-to-read colors: red, orange and green. The color can be tied to the setpoints; providing the operator with a visual display of changing conditions in the application. 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 exceed the normal 6-digit displays. The meter also offers a programmable custom unit indicator for both displays.

Beyond the display, the PAX2D provides the maximum in application flexibility, allowing the user to stock just one meter for numerous applications. The meter is designed to accept inputs from proximity sensors, magnetic sensors, photo eyes, length sensors, rotary pulse generators, transistors or just a plain switch. Plus, the PAX2D 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 PAX2D delivers an ideal solution for applications that require two parameters to be visualized at the same time. For instance, the PAX2D can count the piece count output of a machine and display the machine rate simultaneously.

With dual line display color change capability and other user-friendly features, you will understand why the PAX2D represents the next generation of panel meters.

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INSIGHT ENABLED

DISPLAY: Negative 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

SENSOR POWER: +18 VDC, ±5% @ 60 mA max., short circuit protected

ANNUNCIATORS: *Backlight color:* Red
1 - setpoint alarm 1
2 - setpoint alarm 2
3 - setpoint alarm 3
4 - setpoint alarm 4
Units Label: programmable units annunciators

KEYPAD: 2 programmable function keys, 4 keys total

COUNTER DISPLAYS: 6-digit (top line) or 9-digit (bottom line)
Top Line Display Range: -199,999 to 999,999
Bottom Line Display Range: -199,999,999 to 999,999,999
Over Range Display: OVEr
Under Range Display: UndEr
Display Designators: CtA, Ctb, CtC (top line), A, b, C (bottom line)
Maximum Count Rates: 50% duty cycle, count mode dependent
If setpoints disabled: 35 KHz for all modes except Quadrature x4 (32 KHz)
If setpoint(s) enabled: 20 KHz for any mode except Quadrature x1 (19 KHz), Quadrature x2 (17 KHz) and Quadrature x4 (10 KHz)

RATE DISPLAYS: 6-digit (top or bottom line)
Rate A or Rate B Display Range: 0 to 999,999
Rate C, Rate Max (High) or Min (Low) Display Range: -199,999 to 999,999
Over Range Display: OVEr
Under Range Display: UndEr
Display Designators: RtA, Rtb, RtC, Hi, Lo (top or bottom line)
Maximum Frequency: 50 KHz
Minimum Frequency: 0.001 Hz
Display Update Time: 0.1 to 999.9 seconds
Accuracy: ±0.01%

INPUT CAPABILITIES: The inputs accept pulses from a variety of sources including switch contacts, TTL outputs, magnetic pickups and all standard RLC sensors. Inputs accept current sinking or current sourcing outputs and provide selectable input filtering for low frequency signals or switch contact debounce.

MEMORY: Nonvolatile memory retains all programmable parameters and display values

USER INPUTS: Three programmable user inputs

ENVIRONMENTAL CONDITIONS:
Operating Temperature Range: 0 to 50 °C
Storage Temperature Range: -40 to 60 °C
Operating and Storage Humidity: 0 to 85% max. RH non-condensing

CERTIFICATIONS AND COMPLIANCES:
Refer to 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; Panel gasket and mounting clip included
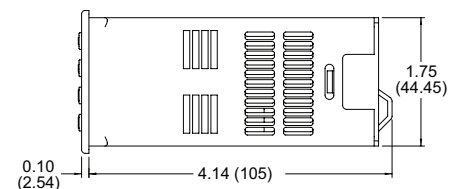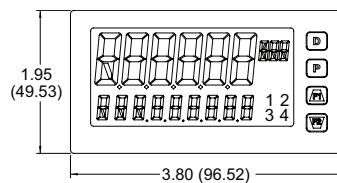
WEIGHT: 8 oz. (226.8 g)

ORDERING INFORMATION:

MODEL NO.	DESCRIPTION	PART NUMBER
PAX2D	Dual Line Digital Input Panel Meter	PAX2D000
PAXCDS	Dual Setpoint Relay Output Card	PAXCDS10
	Quad Setpoint Relay Output Card	PAXCDS20
	Quad Setpoint Sinking Open Collector Output Card	PAXCDS30
	Quad Setpoint Sourcing Open Collector Output Card	PAXCDS40
PAXCDC	RS485 Serial Communications Card with Terminal Block	PAXCDC10
	Extended RS485 Serial Communications Card with Dual RJ11 Connector	PAXCDC1C
	RS232 Serial Communications Card with Terminal Block	PAXCDC20
	Extended RS232 Serial Communications Card with 9 Pin D Connector	PAXCDC2C
	DeviceNet Communications Card	PAXCDC30
	Profibus-DP Communications Card	PAXCDC50
PAXCDL	Analog Output Card	PAXCDL10

DIMENSIONS: *In inches (mm)*

1.95 (49.53)
3.80 (96.52)
1 2 3 4
0.10 (2.54)
4.14 (105)
1.75 (44.45)

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Operator Interface　Protocol Conversion　Signal Conditioning　Panel Meters　Data Acquisition

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