

PD6870

ProtEX-FarVu Explosion-Proof Loop-Powered Process Meter



ProtEXTM
FarVu

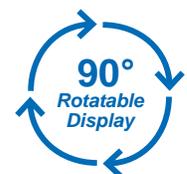


APPROVED



3 1/2 DIGITS • LARGE DISPLAY

- 4-20 mA Input
- Modern, Sleek and Practical Enclosure
- 3½ Digits, 1" (25.4 mm) Display
- Display Mountable at 0°, 90°, 180°, & 270° Degrees.
- Easy Calibration and Installation
- Loop-Powered Backlight Option
- 1 V Drop (4 V with Backlight)
- Explosion-Proof, IP68, NEMA 4X Enclosure
- Flanges for Wall or Pipe Mounting
- HART® Protocol Transparent
- Operates from -40 to 75°C



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SPECIFICATIONS

Except where noted all specifications apply to operation at +25°C.

Display: 3½ digit LCD, 1" (25.4 mm); -1,999 to 1,999

Display Update Rate: 2.5 Updates/Second

Display Orientation: Display may be mounted at 90° increments up to 270° from default orientation.

Overrange: Display reads 1 on the left most digit.

Programming Method: Four front mounted rotary control dials accessed when the cover is removed.

Recalibration: Recommended at least every 12 months.

Normal Mode Rejection: 60 dB rejection ratio

Operating Temperature Range: -40 to 75°C

Storage Temperature Range: -40 to 75°C

Relative Humidity: 0 to 90% non-condensing

Connections: Screw terminals accept 12 to 22 AWG wire

Enclosure: Explosion-proof die cast aluminum with glass window, 0.30% max copper content, corrosion resistant epoxy coating, color: blue.

NEMA 4X, IP68. Two ¾" NPT threaded conduit openings. One ¾" NPT nickel plated brass conduit plug with 10 mm hex key fitting installed.

Mounting: May be mounted directly to conduit. Two slotted flanges for wall mounting or NPS 1½" to 2½" or DN 40 to 65 mm pipe mounting.

Overall Dimensions: 5.65" x 5.25" x 4.86"
(144 mm x 133 mm x 124 mm) (W x H x D)

Weight: 5.00 lbs (80 oz, 2.27 kg)

Warranty: 3 years parts and labor

Input

Input: 4-20 mA

Accuracy: ±0.1% of full span ±1 count

Temperature Drift: 150 PPM/°C from -40 to 75°C ambient

Decimal Point: User selectable decimal point

Calibration Range: 4 mA input: -1000 to +1000; 20 mA between 20 and 2000 counts greater than 4 mA display. Two point linear display span.

Maximum Voltage Drop: 1 VDC @ 20 mA without backlight; 4 VDC @ 20 mA with loop-powered backlight.

Input Overload: Over current protection to 2 A max.

Loop-Powered Backlight Option: Factory installed only. Powered directly from the 4-20 mA loop, no batteries required. Backlight can be enabled or disabled via alternative wiring of terminal block. The display brightness will increase as the input signal current increases.

Product Ratings & Approvals

FM: Explosion-proof for use in Class I, Division 1, Groups B, C, D. Class II, Division 1, Groups E, F, G. Class III, Division 1; T6. Class I, Zone 1, AEx d IIC T6 Gb. Zone 21, AEx tb IIIC T85°C. Ta = -40 to 75°C.

Enclosure: Type 4X & IP66. Certificate number: 3040391

ATEX: II 2 G D. Ex d IIC T6 Gb. Ex tb IIIC T85°C Db IP68.

Ta = -40 to 75°C. Certificate number: Sira 10ATEX1116X

IECEX: IECEX SIR 10.0056X. Ex d IIC T6 Gb. Ex tb IIIC T85°C Db IP68.

Ta = -40 to 75°C

CSA: Class I, Division 1, Groups B, C, D. Class II, Division 1, Groups E, F, G. Class III, Division 1; T6. Class I, Zone 1, Ex d IIC T6.

Ta = -40 to 75°C. Enclosure: Type 4X & IP66.

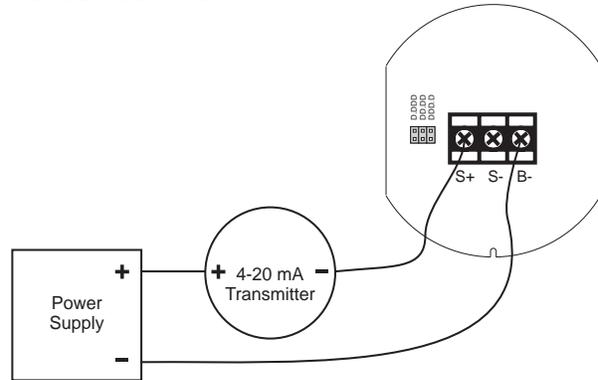
Certificate number: 11 2325749

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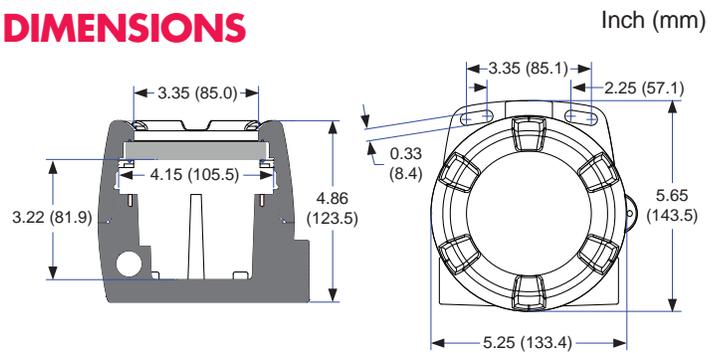
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CONNECTIONS



PD6870 Input Connections with Loop-Powered Backlight

DIMENSIONS



ORDERING INFORMATION

ProtEX-FarVu PD6870 • Large Display Process Meter	
Model	Options Installed
PD6870-0L0	None
PD6870-0K0	Backlight



Your Local Distributor is: