

SPECIFICATIONS

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

General

Display: Five digits (-9999 to 99999) 0.70" (17.8 mm) high, 7-segment, automatic lead zero blanking; **-0L1:** 0.6" high with level bar graph. Lower: Seven characters 0.4" (10.2 mm) high, 14 segment alphanumeric. Symbols: for high & low alarm, Password Lock. Backlight: White

Decimal Point: Upper process display has up to four decimal places or none: d.dddd d.ddd, d.dd, d.d, or ddddd

Display Update Rate: Ambient > -25°C: 2 Updates/Second.

Ambient < -25°C: 1 Update/5 Seconds

Externally Powered Backlight:

Voltage Range: 9-36 VDC

Supply Voltage	9 VDC	12 VDC	24 VDC	30 VDC
Maximum Power	0.2 W	0.25 W	0.5 W	0.75 W

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

Overrange: Display flashes 99999

Underrange: Display flashes -9999

Programming Method: Four SafeTouch® through-glass buttons when cover is installed. Four internal pushbuttons when cover is removed.

Noise Filter: Programmable - Lo, Med, Hi, or Off

Recalibration: Recalibration is recommended at least every 12 months.

Max/Min Display: Max/Min readings reached by the process are stored until reset by the user or until power to the meter is turned off.

Password: Programmable password restricts modification of programmed settings.

Advanced Functions: Live input calibration, linearization, square root, or programmable exponent

Alarm Indication: Flashing display plus HI/LO indicators

Non-Volatile Memory: All programmed settings are stored in non-volatile memory for a minimum of ten years if power is lost.

Normal Mode Rejection: 64 dB at 50/60 Hz

Operating Temperature Range: -40 to 75°C.

Storage Temperature Range: -40 to 85°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, corrosion resistant epoxy coating, color: blue. NEMA 4X, 7, & 9, IP68. Copper-free (0.3%). Two 3/4" NPT threaded conduit openings.

One 3/4" NPT metal conduit plug with 12 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" (W x H x D)

(144 mm x 133 mm x 124 mm)

Weight: 5.00 lbs (80 oz, 2.27 kg)

Warranty: 3 years parts and labor

Input

Input range: 4-20 mA

Accuracy: ±0.03% of calibrated span ±1 count, square root & programmable exponent accuracy range: 10-100% of calibrated span.

Temperature Drift: 50 PPM/°C

Decimal Point: User selectable decimal point

Calibration Range: An error message will appear if input 1 and input 2 signals are too close together. Input Range: 4-20 mA. Minimum Span Input 1 & Input 2: 0.10 mA

Maximum Voltage Drop: 3.0 VDC @ 20 mA without loop-powered backlight. 6.0 VDC @ 20 mA with loop-powered backlight

Equivalent Resistance: 150 Ω @ 20 mA without loop-powered backlight. 300 Ω @ 20 mA with loop-powered backlight

Input Overload: Over current protection to 2 A max.

Open Collector Output (-0L1 Models Only)

Rating: Isolated open collector, 30 VDC @ 150 mA max.

Alarm Output: Assign to level or volume for high or low alarm trip point.

Deadband: 0-100% FS, user selectable

Acknowledge: Front panel ENTER button and external RESET terminals resets output and screen indication.

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

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.

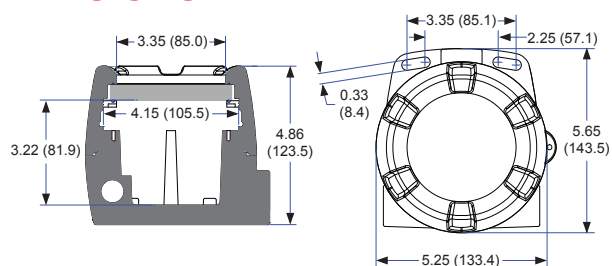
Certificate number: 11 2325749

IECEX: Ex d IIC T6 Gb. Ex tb IIIC T85°C Db IP68. Ta = -40 to 75°C

Certificate number: IECEX SIR 10.0056X.

DIMENSIONS

Units: Inch (mm)



ORDERING INFORMATION

ProtEX-Pro PD6800 • Process Meter	
Model	Description
PD6800-0K0	ProtEX-Pro Process Meter with Backlight
PD6800-0L1	ProtEX-Pro Process Meter with Level Bar Graph & Backlight

Accessories	
Model	Description
PDA0001	3/4" M-NPT to F-M20 Reducer
PDA0002	3/4" M-NPT to 1/2" F-NPT Reducer
PDA6846	Pipe mounting kit; includes zinc-plated u-bolt for 2" pipe, (2) washers, and (2) nuts.
PDA6846-SS	Pipe mounting kit; includes stainless steel u-bolt for 2" pipe, (2) washers, and (2) nuts.

Your Local Distributor is:

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