PD8

ProtEX-MAX Explosion-Proof Instruments

ProtEX™ MAX

SafeTouch®
Through-Glass
Button Programming

90°
Rotatable
Display

FM APPROVED · CSA · Ex · IEC Ex · CE
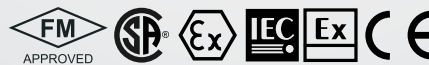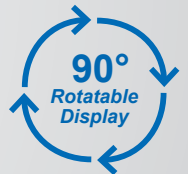
VERSATILE

- Modern, Sleek and Practical Enclosure
- Display Mountable at 0°, 90°, 180°, & 270°
- Explosion-Proof, IP68, NEMA 4X Enclosure
- Models Available with PROVU®, Trident X2, or Vigilante® II Functionality
- SafeTouch® Through-Glass Button Programming
- Password Protection (Display models)
- Modbus® RS-485 Serial Communications (Select models)
- Flanges for Wall or Pipe Mounting
- Sunlight Readable Displays on All Models

PROCESS

DUAL-INPUT

FLOW RATE/TOTAL

BATCH CONTROL

TEMPERATURE

STRAIN GAUGE

PROCESS & TEMP

MODBUS INPUT

ANNUNCIATORS

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OVERVIEW

The ProtEX-MAX Series has been designed to offer the functions and features of any PRoVu®, Trident X2, or Vigilante® II model in a great looking fully approved explosion-proof product. The PD8 series is not just an 1/8 DIN meter mounted in an explosion-proof housing. A special bezel and electronics were designed exclusively for the ProtEX-MAX. The bezel and faceplate give the front panel a very finished appearance and house the additional electronics for the PD8. Program and operate the meter without opening the housing using the built-in SafeTouch® through-glass button programming or the serial communication port with free Modbus® protocol.

KEY FEATURES

Through-Glass SafeTouch® Buttons

The PD8 is equipped with up to 4 sensors that operate as through-glass buttons so that it can be programmed and operated without removing the cover (and exposing the electronics) in a hazardous area. These buttons can be disabled for security by selecting the LOCK setting on the switch located on the connector board in the base of the enclosure. To actuate a button, press one finger to the glass directly over the marked button area. When the cover is removed, mechanical buttons located on the faceplate are used.

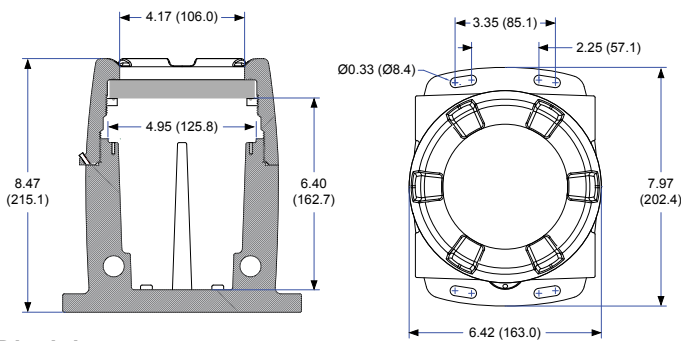### Modern, Sleek and Practical Enclosure

The first thing customers notice about a product is its enclosure and the ProtEX-MAX really shines here. The copper-free (0.30%), smooth, die-cast aluminum NEMA 4X (IP68) enclosure is finished with a corrosion resistant epoxy coating that literally does make the ProtEX-MAX shine. The built-in mounting flanges make for convenient wall or pipe mounting and there is even a slot on the back of the enclosure for centering on the pipe. There are four ¾" NPT conduit holes for wiring (two metal conduit plugs supplied).

Serial Communications

Modbus and RS-485 are standard with all ProtEX-MAX models except the PD8-154 and PD8-158. Refer to PD8 manual addendum for details.

DIMENSIONS

Units: Inch (mm)

INSTRUMENT SPECIFICATIONS

Refer to the data sheets for the meter/controller integral to the PD8.
Weight: approx. 16.0 lbs (256 oz, 7.26 kg)

Product Ratings & Approvals

FM Approved: Enclosure: Type 4X; IP66
Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1, T5/T6; Class I, Zone 1, AEx d, IIC Gb T5/T6; Zone 21, AEx tb IIIC T90°C; Ta -40°C to +65°C
T6 Ta = -40°C to +60°C; T5 Ta = -40°C to +65°C
Certificate Number: 3047283
CSA Certified: Class I, Division 1, Groups B, C, D; Class II, Division 1, Groups E, F, G; Class III, Division 1:
Class 1 Zone 1 Ex d IIC; Zone 21 Ex tb IIIC T90°C:
-40°C < Tamb. < +60° C; Temperature Code T6
-40°C < Tamb. < +65° C; Temperature Code T5
Enclosure Type 4X & IP66
Certificate Number: 2531731
ATEX Certified: II 2 G D, Ex d IIC T* Gb, Ex tb IIIC T90°C Db IP68.
Ta = -40 to +*°C. *T6 = -40 to + 60°C, *T5 = -40 to +65°C
Certificate Number: Sira 12ATEX1182
IECEx Certified: Ex d IIC T* Gb, Ex tb IIIC T90°C Db IP68.
Ta = -40 to +*°C. *T6 = -40 to +60°C, *T5 = -40 to +65°
Certificate Number: IECEx SIR 12.0073

ORDERING INFORMATION

ProtEX-MAX PD8 • Explosion-Proof Instruments	
Base Model	**Description**
PD8-154	4-Point Alarm Annunciator
PD8-158	8-Point Alarm Annunciator
PD8-765	Process & Temperature Meter (Trident X2 model only)
PD8-6000	Process Meter
PD8-6060	Dual-Input Process Meter
PD8-6080	Modbus Serial Input Scanner
PD8-6081	Feet & Inches Modbus Serial Input Scanner
PD8-6100	Strain Gauge Meter
PD8-6200	Analog Input Rate/Totalizer
PD8-6210	Analog Input Batch Controller
PD8-6262	Dual Analog Input Rate/Totalizer
PD8-6300	Pulse Input Rate/Totalizer
PD8-6310	Pulse Input Batch Controller
PD8-6362	Dual Pulse Input Rate/Totalizer
PD8-7000	Temperature Meter

Any Vigilante® II Annunciator Model PD8- 1 5 8 - 6 R 2 - 1
Any PRoVu® SunBright Meter Model PD8- 6 0 0 0 - 6 H 2
Any Trident X2 Meter Model PD8- 7 6 5 - 6 X 2 - 1 0

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