

ProtEX™-MAX Explosion-Proof Meters

Operate without having to open the die-cast aluminum NEMA 4X enclosures

Introducing Precision Digital's new hazardous area 1/8-DIN meters, the ProtEX-MAX series. This series offers a wide range of explosion-proof process meters, flow rate/totalizers, batch controllers, temperature meters, dual-input process meters, and Modbus® meters with standard dual-line or large 1.2" (30 mm) displays. 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.

Up to four sensors operate as through-glass buttons so that the meter 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.

All models feature extraordinarily bright LEDs with eight user-selectable intensity levels, making them perfect for applications where the meter is in direct sunlight or where visibility may be impaired by smoke, fog, dust, or distance.

- View from wide angles
- Display mountable at 0°, 90°, 180°, and 270°
- Easy field setup and wiring
- RS-485 with MODBUS® protocol standard
- Four 3/4" NPT conduit holes for wiring
- Flanges for wall or pipe mounting
- Explosion-proof, IP68, NEMA 4X enclosures



30014-70
Dual-line meter



30014-90
meter with
1.2" display

| SPECIFICATIONS | |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input | PD8-6XXX: 0 to 20, 4 to 20 mA, ±10 V (0 to 5, 1 to 5, 0 to 10 V), Modbus PV (Slave) PD8-765: ±10 VDC (0 to 5, 1 to 5, 0 to 10 V) Type J, K, T, or E thermocouples; 100 Ω platinum RTD (0.00385 or 0.00392 curve) |
| Display | PD8-6XXX: Six digits, upper display: 0.60" (15 mm); lower display: 0.46" (12 mm) PD8-765: Four digits, 1.20" (31 mm) |
| Programming | Four front-panel buttons or SafeTouch through-glass buttons, PC and MeterView® software, or copy function |
| Enclosure | Explosion-proof die-cast aluminum; NEMA 4X, 7, 0; IP68 |
| Operating temperature | PD8-6XXX: -40 to 149°F (-40 to 65°C); PD8-765: 32 to 149°F (0 to 65°C) |
| Dimensions | 6 3/8" x 8" x 8 1/2" (163 x 202 x 215 mm) |
| Power | 85 to 265 VAC, 50/60 Hz |

| Catalog No. | Model No. | Description | Options installed |
|-------------|----------------|---------------------------------------------|------------------------------------------|
| TS-30014-70 | PD8-6000-6H0 | Dual-line process meter | None |
| TS-30014-71 | PD8-6000-6H5 | Dual-line process meter | 2 relays + 4 to 20 mA output |
| TS-30014-72 | PD8-6000-6H7 | Dual-line process meter | 4 relays + 4 to 20 mA output |
| TS-30014-73 | PD8-6060-6H0 | Dual-line, dual-input process meter | None |
| TS-30014-74 | PD8-6060-6H5 | Dual-line, dual-input process meter | 2 relays + 4 to 20 mA output |
| TS-30014-76 | PD8-6060-6H7 | Dual-line, dual-input process meter | 4 relays + 4 to 20 mA output |
| TS-30014-77 | PD8-6200-6H0 | Dual-line flow rate/totalizer | None |
| TS-30014-78 | PD8-6200-6H5 | Dual-line flow rate/totalizer | 2 relays + 4 to 20 mA output |
| TS-30014-79 | PD8-6200-6H7 | Dual-line flow rate/totalizer | 4 relays + 4 to 20 mA output |
| TS-30014-80 | PD8-6210-6H5 | Dual-line batch controller | 2 relays + 4 to 20 mA output |
| TS-30014-88 | PD8-6210-6H7 | Dual-line batch controller | 4 relays + 4 to 20 mA output |
| TS-30014-89 | PD8-765-6X0-10 | Process and temperature meter, 1.2" display | 24 VDC supply |
| TS-30014-90 | PD8-765-6X2-10 | Process and temperature meter, 1.2" display | 2 relays + 24 VDC supply |
| TS-30014-91 | PD8-765-6X3-20 | Process and temperature meter, 1.2" display | 4 to 20 mA output + dual 24 VDC supplies |