



# PROCESS METER: LEVEL

Process Instrumentation

## Model PM-9300 Series

- **Low-cost Alarm & Pump Controller**
- **Alternates up to 4 pumps with time delay**
- **NEMA 4X Front Face (optional box)**
- **4-20 mA Analog Input & Output**
- **Displays Level, Distance, Volume & Percent**
- **Two-Line, 6 Digit Display**
- **Power Supply 85-250VAC or 12/24VDC**
- **24 VDC Transmitter Power Supply**
- **Optional Explosion Proof Enclosures**



### Versions:

- Model PM-9300 (No outputs, display & panel mount)
  - Model PM-9320 (2 Relays, 1 4-20mA out, panel mount)
  - Model PM-9340 (4 Relays, 1 4-20mA out, panel mount)
  - Model PM-9301 (No outputs, display & Enclosure)
  - Model PM-9321 (2 Relays, 1 4-20mA out, Enclosure)
  - Model PM-9341 (4 Relays, 1 4-20mA out, Enclosure)
- (Specify PM-93XX- AC or DC for the Power Supply)

### SPECIFICATIONS

**Display:** Top 0.6", Bottom 0.45" Ht, red LEDs, 6 digits (-999999 to 999999), 8 Intensity levels.

**Front Panel:** NEMA 4X, IP65; panel gasket provided with four front panel buttons.

**Password:** Restricts modification of programmed settings.

**Non-Volatile Memory:** Settings stored for a minimum of 10 years.

**Power Options:** 85-265 VAC, 50/60 Hz; 90-265 VDC, 20 W max or 12-24 VDC; 15 W max.

**Required Fuse:** UL Recognized, 5 A max, slow-blow.

**Isolated Transmitter:** 5, 10 or 24 VDC selectable via jumper, 700Ω max.

**Operating Temperature:** -40 to 150°F Storage Temperature: -40 to 185°F.

**Connections:** Removable terminal blocks accept 12 - 22 AWG. Note: RJ45 external I/O only.

**Enclosure:** 1/8 DIN, high impact plastic, 94V-0, color; gray, weight = 9.5 oz (269 g).

**Mounting Cut-out:** 1/8 DIN panel cutout required 3.622" x 1.772" (92 x 45mm). Brackets included.

**Dimensions:** 4.68" x 2.45" x 5.64" (119mm x 62mm x 143mm), W x H x D.

**Inputs:** Field selectable: 0-20 mA, 4-20 mA, 0-5 VDC, 1-5 VDC, 0-10 VDC.

**Accuracy:** ±0.03% FS ±1 count, Linear, square root, exponent, horizontal tank volume, 32 pt DIY.

**Calibration Range:** User programmable over entire range of meter, up to 5 decimal places.

**Relays:** 0, 2 or 4 SPDT Form C, rated 3A @ 30VDC and 125/250 VAC.

**Relay Operation:** Pump Alternation Control, Automatic (non-latching), Latching, Sampling (based on time).

**Time Delay:** 0 to 999 seconds, on and off relay time delays, each relay is programmable separately.

**Fail-Safe:** Programmable and Independent for each relay.

**Analog Output:** 1 Isolated 4-20mA Output, 0.1% FS accuracy.



# PROCESS METER FLOW

Process Instrumentation

## Model PM-9400 Series

- **Low-cost Flow rate & totalizer process meter**
- **9 - Digit totalizer with total overflow feature**
- **NEMA 4X Front Face (optional box)**
- **4-20 mA Analog Input & Output**
- **Two-Line, 6 Digit Display**
- **Power Supply 85-250VAC or 12/24VDC**
- **24 VDC Transmitter Power Supply**
- **Optional Explosion Proof Enclosures**



### Versions:

- Model PM-9400 (No outputs, display & panel mount)
  - Model PM-9420 (2 Relays, 1 4-20mA out, panel mount)
  - Model PM-9440 (4 Relays, 1 4-20mA out, panel mount)
  - Model PM-9401 (No outputs, display & Enclosure)
  - Model PM-9421 (2 Relays, 1 4-20mA out, Enclosure)
  - Model PM-9441 (4 Relays, 1 4-20mA out, Enclosure)
- (Specify PM-94XX- AC or DC for the Power Supply)

### SPECIFICATIONS

**Display:** Top 0.6", Bottom 0.46" Ht, red LEDs, 6 digits (-999999 to 999999), 8 Intensity levels.

**Front Panel:** NEMA 4X, IP65; panel gasket provided with four front panel buttons.

**Password:** Restricts modification of programmed settings.

**Non-Volatile Memory:** Settings stored for a minimum of 10 years.

**Power Options:** 85-265 VAC, 50/60 Hz; 90-265 VDC, 20 W max or 12-36 VDC; 6 W max.

**Required Fuse:** UL Recognized, 5 A max, slow-blow.

**Isolated Transmitter:** 5, 10 or 24 VDC selectable via jumper, 700Ω max.

**Operating Temperature:** -40 to 150°F Storage Temperature: -40 to 185°F.

**Connections:** Removable terminal blocks accept 12 - 22 AWG. Note: RJ45 external I/O only.

**Enclosure:** 1/8 DIN, high impact plastic, 94V-0, color; gray, weight = 9.5 oz (269 g).

**Mounting Cut-out:** 1/8 DIN panel cutout required 3.622" x 1.772" (92 x 45mm). Brackets included.

**Dimensions:** 4.68" x 2.45" x 5.64" (119mm x 62mm x 143mm), W x H x D.

**Inputs:** Field selectable: 0-20 mA, 4-20 mA, 0-5 VDC, 1-5 VDC, 0-10 VDC.

**Accuracy:** ±0.03% FS ±1 count, Linear, square root, exponent, horizontal tank volume, 32 pt DIY.

**Calibration Range:** User programmable over entire range of meter, up to 5 decimal places.

**Relays:** 0, 2 or 4 SPDT Form C, rated 3A @ 30VDC and 125/250 VAC.

**Relay Operation:** Automatic (non-latching), Latching, Sampling (based on time).

**Time Delay:** 0 to 999 seconds, on and off relay time delays, each relay is programmable separately.

**Fail-Safe:** Programmable and Independent for each relay.

**Analog Output:** 1 Isolated 4-20mA Output, 0.1% FS accuracy.

**Rate / Totalizer Display Assignment:** The upper & lower displays maybe assigned to rate, total, grand total, alternate RT, units, and set point.

**Totalizer:** Calculates total based on rate & field programmable multiplier to display total in engineering units.