

# JOWA USA

## Digital Display Meter PD6000 Series



### Features:

- 0-20 mA, 4-20 mA, 0-5 V and 1-5 V Inputs
- NEMA 4X, IP65 Front
- 85-265 VAC or 12/24 VDC Input Power
- Dual-Line 6-Digit Display, 0.60" & 0.46"
- Isolated 24 VDC @ 200 mA Transmitter Power Supply
- Math Functions for Flow & Round Horizontal Tanks
- Programmable Displays & Function Keys
- 32-Point, Square Root, or Exponential Linearization
- Multi-Pump Alternation Control
- -40 to 65°C Operating Temperature Range

### Options:

- 2 or 4 Relays + Isolated 4-20 mA Output
- RS-232, RS-422/485 Serial Communication

### Description:

Digital display meters provide readout of liquid level or temperature when used with level or level/temperature sensors and transmitters.

These panel mount meters are standard 1/8 DIN size, constructed of high impact plastic. The front panel is NEMA 4X. For wall mounting, an optional NEMA 4X Polycarbonate enclosure is available with hardware and a cut-out to mount the meter.

### Specifications:

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

**Display:** Main: 0.60" (15 mm) high, second: 0.46" (12mm) high. Both are 6 digits (-99999 to 999999), red LEDs with leading zero blanking.

**Display Intensity:** Eight user selectable levels.

**Front Panel:** NEMA 4X, IP65. Gasket provided.

**Programming Methods:** Four front panel push buttons, PC or cloning with Copy feature.

**Noise Filter:** Programmable between 2 and 199 (0 will disable filter).

**Display Update Rate:** 5/second (200 ms)

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## Specifications, continued:

**MAX/MIN Display:** Stored until reset by user or meter is turned off.

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

**Power:** 85-265 VAC 50/60 Hz, 90-265 VDC 20 W max, or jumper selectable 12/24 VDC  $\pm 10\%$ , 15 W max.

### Environmental:

Operating temperature range:  $-40$  to  $150^{\circ}\text{F}$  ( $-40$  to  $+65^{\circ}\text{C}$ )

Storage temperature range:  $-40$  to  $185^{\circ}\text{F}$  ( $-40$  to  $+85^{\circ}\text{C}$ )

Relative humidity: 0 to 90% non-condensing.

**Connections:** Power & Signal: removable screw terminal blocks accept 12 to 22 AWG.

**Enclosure:** 1/8 DIN, high impact plastic, UL 94V-0, color; black

**Weight:** 9.5oz (269g) (with no options)

**UL File Number:** UL & c-UL Listed. E160849; 508 Industrial Control Equipment.

**Accuracy:**  $\pm 0.03\%$  of calibrated span  $\pm 1$  count.

**Input Impedance:** Voltage range: greater than  $1\text{M}\Omega$ , Current range: 50-100 $\Omega$ .

**Input Overload:** Protected by automatically resettable fuse.

## Options:

### Relays

**Rating:** 2 or 4 SPDT (form C); rated 3 amps @ 30VDC or 3 amps @ 250VAC resistive load; 1/14 HP @ 125/250 VAC for inductive loads.

**Deadband:** 0-100% of full scale, user selectable

**High or Low Alarm:** User may program any alarm for high or low.

**Relay Operation:** 1. Automatic (non-latching)  
2. Latching 3. Pump alternation control

**Time Delay:** 0 to 999.9 seconds, on and off delays; programmable.

**Fail-Safe Operation:** Programmable, independent

for each relay. Relay coils are energized in non-alarm condition. In case of power failure, relays will go to alarm state.

### Isolated 4-20 mA Transmitter Output

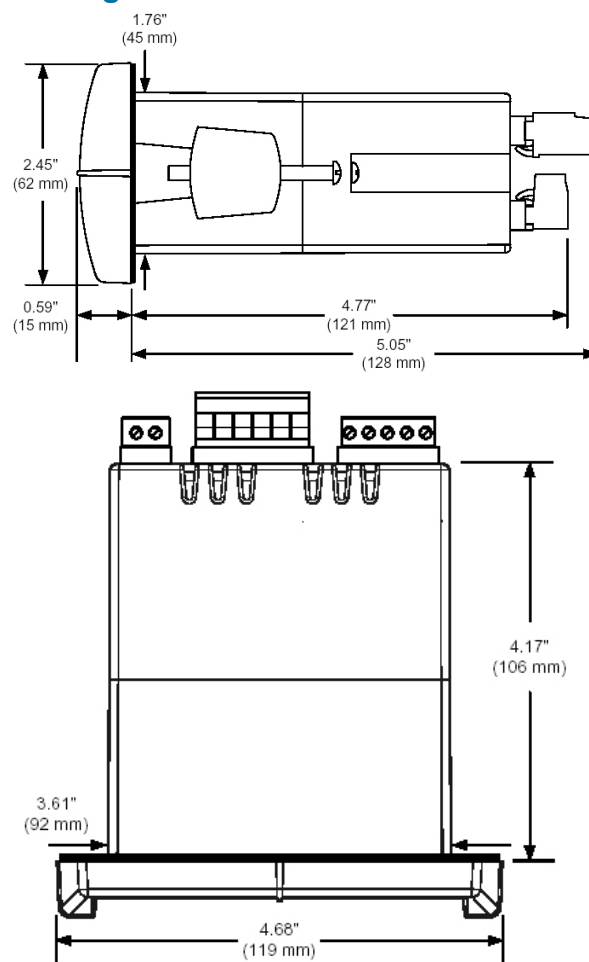
**Output Range:** 1.00 to 23.00mA typical

**Accuracy:**  $\pm 0.1\%$  F.S.  $\pm 0.004\text{mA}$

**Temperature Drift:** 50PPM/ $^{\circ}\text{C}$  from 0 to  $65^{\circ}\text{C}$  ambient Note: Analog output drift is separate from input drift.

**External Power:** 35VDC maximum

## Mounting Dimensions:



### Notes:

1. Panel cutout required: 1.77" x 3.622" (45mm x 92mm)
2. Panel thickness: 0.04" - 0.25" (1.0mm - 6.4mm)
3. Mounting brackets lock in place for easy mounting

### Disclaimer:

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