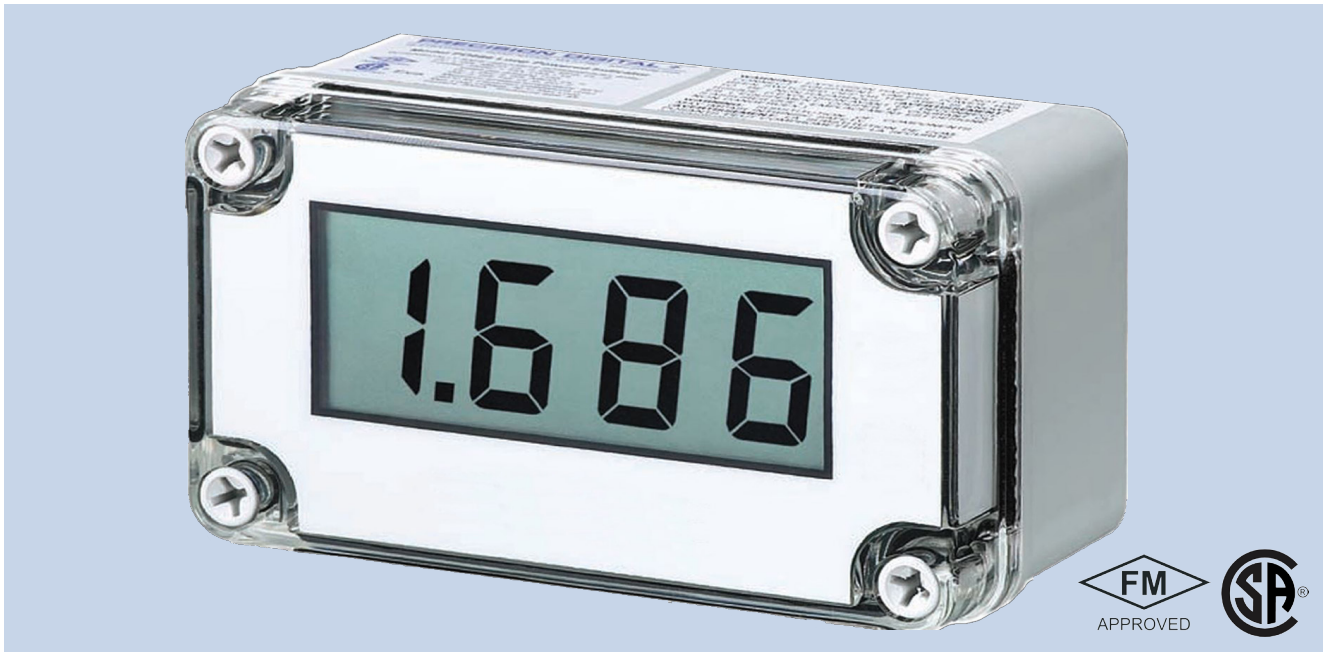


# JOWA USA

## Loop Powered Indicator PD686



### Features:

- 4-20mA Input @ 30VDC maximum
- Loop-Powered Process Meter
- 1 Volt Drop
- 25.4mm (1.0 inch) 3½ Digit Display
- Operates from -40°C to +85°C
- Two-step; non-interacting Zero & Span calibration
- Display Update Rate of 2.5/second
- IP67, NEMA 4X Enclosure
- FM and CSA Intrinsically Safe

### Description:

The PD686 is a two-wire digital indicator that provides local process indication of a 4-20mA signal on a 3½ digit liquid crystal display. The indicator features 3½, easy to read, 1 inch high active digits.

The PD686 is an FM and CSA intrinsically safe, IP67 loop-powered indicator that is easy to install and program. The decimal point is user selectable via a jumper. It is powered directly from the 4 to 20mA loop dropping less than 1 volt across the input terminals. No need to run additional costly power lines into a hazardous area.

The meter has a wide -40°C to +85°C operating temperature range. Calibration is a quick two step process involving the adjustment of only one set of non-interacting potentiometers.

# Loop Powered Indicator PD686

## Specifications:

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

**Input:** 4-20mA @ 30VDC maximum

**Display:** 25.4mm (1.0") LCD, 3½ digits; -1999 to +1999

**Accuracy:** ±0.1% FS ±1 count

**Entity Parameters:**  $V_{max} = 30V$ ,  $I_{max} = 175mA$ ,  $C_i = 0\mu F$   
 $P_i = 1.3W$ ,  $L_i = 0\mu H$

**Decimal Point:** User selectable via jumper

**Calibration:** Two-step non-interacting zero and span

**Calibration Range:** 4mA input: -1000 to +1000;  
20mA input: between 20 and 2000 counts > 4mA display

**Display Update Rate:** 2.5/second

**Maximum Input Current:** 30mA

**Maximum Voltage Drop:** 1V @ 20mA

**Operating Temperature:** -40°C to +85°C for  
Canadian installations -40 to 40°C

**Storage Temperature:** -40°C to +85°C

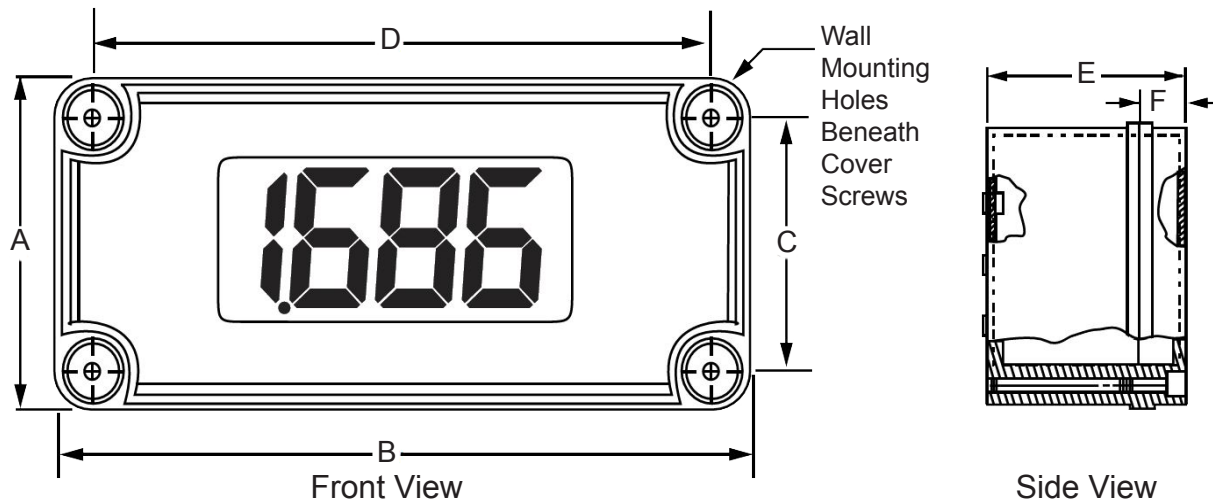
**Relative Humidity:** 0 to 90% non-condensing.

**Enclosure:** Impact-resistant, glass-filled,  
polycarbonate body, color: gray; Impact-resistant,  
polycarbonate cover, transparent; Polyurethane/  
polymer gasket; Polyamide/plastic cover screws;  
NEMA 4X, IP67

**Connections:** Removable screw terminal accepts  
12 to 26 AWG wire.

**Weight:** 340g (12oz)

## Dimensions:



A: 80mm (3.15")    C: 60mm (2.36")    E: 65mm (2.56")  
B: 140mm (5.51")    D: 120mm (4.72")    F: 20mm (.79")

### Disclaimer:

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