

ECONOMICAL 4 TO 20 MA LOOP-POWERED INDICATOR

For Rate or Rate and Total



DPF301 Series

Shown with PSU-93 power supply.



DPF302 shown smaller than actual size.



- ✓ Available with Dual Rate/Total, Display
- ✓ Linear or Square Root Extraction of Input
- ✓ 8-Digit Totalizer Display
- ✓ Calibration Fully Programmable Through Keypad

The DPF301 Series comprises 4 to 20 mA loop-powered panel-mount indicators that display process variables in engineering units (GPM, LPM, psig, %RH, etc.), with an adjustable decimal point for rate and total display. Because these indicators take power directly from the current loop, the user can perform programming on the front keypad; there are no jumpers to configure or potentiometers to scale. An internal lithium battery ensures that all programming is retained in memory, even when the loop power is disconnected. The DPF301 can be programmed for either a linear input or square root extraction for use with differential pressure flowmeters.

The DPF301 general purpose indicator features one 4½ digit rate display, while the DPF302 flow indicator has a dual, 2-line, 4½ digit rate display and 8-digit totalizer. The totalizer can be reset from either the front keypad or remotely via a contact closure.

OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

The DPF300 Series indicators are available in a choice of panel-mount, NEMA 4X (IP66), or explosion-resistant enclosures.

To Order	
Model No.	Description
DPF301	General purpose panel-mounted 4 to 20 mA loop-powered ratemeter/indicator
DPF302	Panel-mounted 4 to 20 mA loop-powered ratemeter and totalizer for flow
PSU-93	Power supply, 16 to 23 Vdc, 300 mA maximum, unregulated

Comes complete with operator's manual.

For NEMA 4X (IP66) polycarbonate enclosure, add suffix "-NEMA" to model number, for additional cost.

For explosion-resistant housing, add suffix "-EXP" to model number, for additional cost.

Ordering Examples: DPF302, loop-powered ratemeter and totalizer.

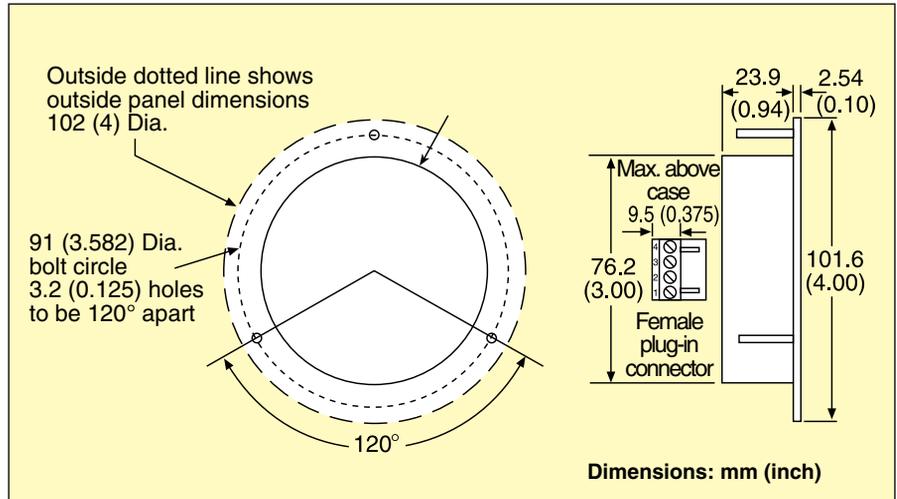
DPF302-NEMA, panel-mounted 4 to 20 mA loop-powered ratemeter/totalizer.

OCW-3, OMEGACARESM extends standard 2-year warranty to a total of 5 years.



Available in a choice of panel-mount, NEMA 4X (IP66), or explosion-resistant enclosures

DPF301 General Purpose Ratemeter/Indicator



SPECIFICATIONS

Scalable Input Range:

3.8 to 21 mA

Internal Battery (Memory Only): 3V 250 mAh lithium (2-year standby life)

Rate Display (DPF301 and DPF302):

4½ digits maximum (19999), 8.89 mm (0.35") high

Totalizer Display (DPF302 Only):

8 Digits (99999999), 5.08 mm (0.2") high

Rate Descriptors:

/sec, /min, /hr or "blank"

Unit Descriptors:

Gal, Lit, FT3, M3, "blank"

Display Indications: Low battery and under/over range

Input: 4 to 20 mA DC, overcurrent protection to 60 mA, reverse polarity protected

Loop Voltage Drop: 6V maximum

Housing

Standard: Round panel mount with NEMA 4X (IP66) sealed keypad membrane

Optional: Glass-filled polycarbonate NEMA 4X (IP66) enclosure, or explosion-resistant housing for NEMA 7, NEMA 4 (IP66), Class I, Groups B, C and D; Class II, Groups E, F and G

Ambient Temperature:

-20 to 70°C (-4 to 158°F)

Extended Temp Option:

-30 to 70°C (-22 to 158°F)

Accuracy (Rated @ 20°C):

0.1% FS resolution, ±1 count

Temperature Drift: 50 ppm/°C typical, 200 ppm/°C worst case

Low Cutoff: A rate below 1% of selected scale (10% of square root scale) will assume the "set lo" value

Update Rate: For rate or total, once every 2 seconds

Weight:

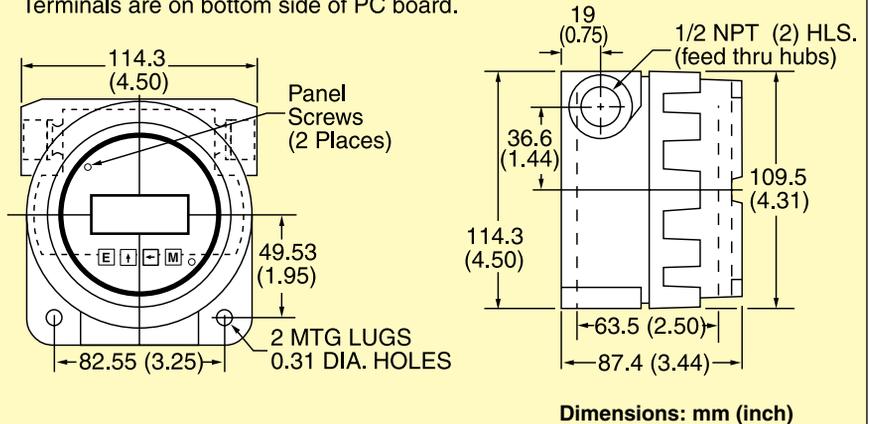
Basic Unit: 227 g (0.5 lb)

With NEMA Enclosure: 454 g (1 lb)

With Explosion-Resistant Housing: 1.6 kg (3.5 lb)

NEMA 4X (IP66) Polycarbonate Enclosure

To access terminals unscrew cover and loosen 2 panel screws. (If screws are removed, spacers may drop out.)
Terminals are on bottom side of PC board.



Explosion-Resistant Housing

To access terminals unscrew cover and loosen 2 panel screws. (If screws are removed, spacers may drop out.)
Terminals are on bottom side of PC board.

