

Probe, duct, panel Static - Differential Pressure

0-25", 0-7000 Pa versions
Accurate silicon piezoresistive sensor
LCD display (WC or pascal models)
Dual 0-5/10VDC and 4-20mA outputs



NEMA 4 Duct Probe
PDP32

NEMA 4
PDP31

Panel Mount
PDP30

DESCRIPTION

This PDP series dry media pressure sensors cover up to 0-25" (0-7000Pa). The transmitter features field selectable pressure ranges LCD readout for ease of installation. Piezoresistive sensor chip provides accurate and reliable sensing.

APPLICATIONS

- Static pressure in duct or room, variable air volume system control, and filter status monitoring

FEATURES

Integrated, micromachined silicon piezoresistive sensor

- Outstanding sensitivity, linearity, and hysteresis

Switch-selectable ranges

- Three WC models with three ranges each: 0-10" (Selectable 2.5, 5.0, 10.0"WC) or 0-25" (Selectable 10, 15, 25"WC)
- Three Pa models with three ranges each: 0-2500Pa (0-2500/1250/250"Pa uni-directional only) or 0-7000Pa (Selectable 0-7000 (7000/5000/2500 Pa uni-directional)
- Dual outputs 4-20mA and jumper selectable 0-5V or 0-10V

Easy to install and maintain

- LCD display for easy setup and commissioning
- Auto zero push button input and auto zero control contact for system accuracy
- Dual outputs: 4-20mA and jumper selectable 0-5V or 0-10V

Three Versatile package styles:

- Open Frame: Panel mount DIN or screw-mount model
- Probe: NEMA 4 with integral duct probe
- Duct: NEMA 4 with brass hose barb fittings

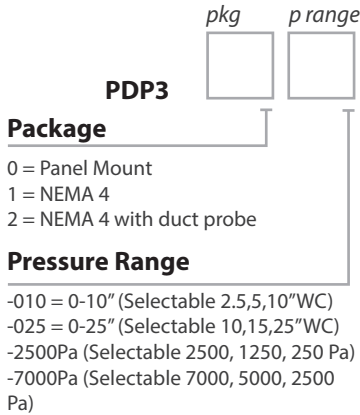
Push button and remote zero



Selectable ranges for high resolution



7 year limited warranty

ORDERING


(Write your selected Package and Pressure Range numbers in the boxes above)

SPECIFICATIONS

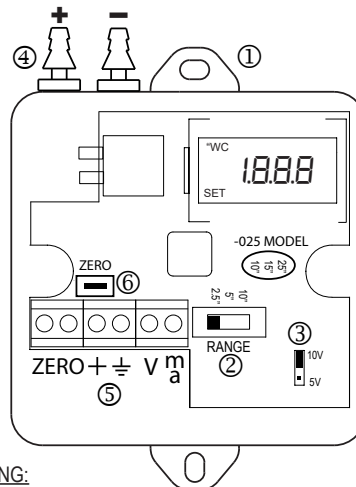
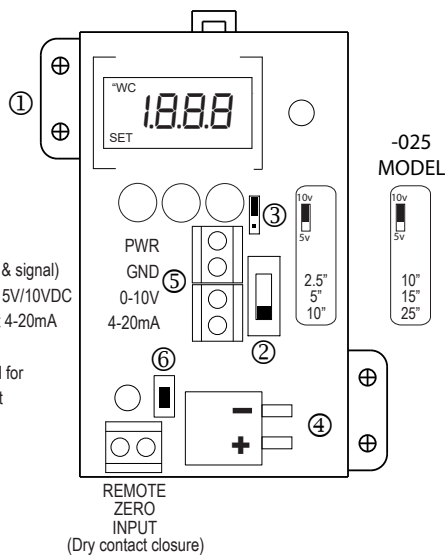
Power Supply	12-30VDC/24VAC ⁽¹⁾ , 30mA max. (13VDC min for 10V f.s. output)
Output type	Dual outputs 3-wire 0-5/10VDC and 3-wire 4-20mA
Output scaling	Model PDP[XX]-010 0-10" (Selectable 2.5, 5, 10"WC)
	Model PDP[XX]-025 0-25" (Selectable 10, 15, 25"WC)
	PDP[XX]-2500Pa 0-2500Pa (Selectable 2500, 1250, 250 Pa)
	PDP[XX]-7000Pa 0-7000Pa (Selectable 7000, 5000, 2500 Pa)
Operating Environment	Calibrated temperature range 50 to 140 F (10-60C)
	Humidity range 0-90% RH
Media compatibility	Dry, oil-free air, N2
Sensor Type	Integrated, micromachined silicon piezoresistive
Sensor Performance	Accuracy (Linearity, hysteresis, temperature) 2.5% f.s.
	Auto-zero input Push-button and contact closure input provided
Enclosure	PDP30-XXX (Duct or Panel Mount) Open frame, 35mm DIN rail or screw mount
	PDP31-XXX (Duct or Panel Mount) NEMA 4, IP65, screw mount, brass hose barb fittings
	PDP32-XXX (Duct Mount w/pickup tube) NEMA 4, IP65, screw mount, brass hose barb fitting and static pickup tube

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.

TYPICAL WIRING
WIRING:

PWR = Power Supply +
GND = Common (power & signal)
0-10V = Voltage output 5V/10VDC
4-20mA = Current output 4-20mA

(PWR and GND required for both Voltage and Current output operation)


WIRING:

+ = Power Supply
⊥ = Common (power & signal)
V = Voltage output 5V/10V
m a = Current output 4-20mA
ZERO = Contact closure input

(Power and Common required for both VDC and mA operation)