

Dry Media Low Differential Pressure PDP Series 0-1", 0-2"

Zero Drift & Zero-Free

Dual output 0-5/10VDC and 4-20mA | Open Frame & NEMA 4 Versions

NEMA 4
PDP31



Open Frame
DIN or screw mount
PDP30



NEMA 4 Duct Probe
PDP32



**Breakthrough integrated digital sensor.
No offset. No drift. No need to zero.... ever!**



Selectable pressure ranges

Gasketed housing

Output type selection and
uni/bi-directional selection

Intrinsic flow measurement technology for high accuracy

- Outstanding performance as a result of measuring differential pressure using intrinsic flow measurement
- Combines the sensor element, signal processing and digital calibration on a tiny microchip (low DP sensors)
- Ideal for clean rooms, hospitals, fume hoods, computer rooms, and other very low differential pressure applications
- Applications include static pressure in duct or room, variable air volume system control, and filter status monitoring

Easy to install and maintain

- Mount in any position. No gravity effect
- LCD display for easy setup and commissioning

Switch-selectable pressure ranges

- Two models with three ranges each: 0-1" (0.1, 0.5, 1.0) uni or bi-directional 0-2" (0.5, 1.0, 2.0") uni or bi-directional
- Jumper selectable uni or bi directional
- Dual outputs 4-20mA and jumper selectable 0-5v or 0-10v

Versatile

- Three package styles: Narrow DIN or screw-mount model for crowded control panels, robust NEMA 4 enclosure with brass hose barb fittings or NEMA enclosure with integral duct probe.



Position insensitive
mounting eliminates
call backs



SPECIFICATIONS

Power Supply		12-30vdc/24vac(1), 30mA max. (13vdc min for 10V f.s. output)
Output Type	Dual	3-wire 0-5/10vdc and 3-wire 4-20mA
Output scaling	Model P-DP[XX]-001	0-1" (Selectable 0.1, 0.5, 1.0) uni or bi-directional
	Model P-DP[XX]-002	0-2" (Selectable 0.5, 1", 2") uni or bi-directional
Operating Temperature	Calibrated range	32 to 122 F (0-50C)
Media compatibility		Dry, oil-free air, N2
Sensor Type		Digital CMOS intrinsic flow differential pressure
		None - position insensitive
	Position effects	Zero drift
	Zero point accuracy	0.5 Pa
	Span Accuracy	3% of reading
	Zero point repeatability	0.1 Pa
	Span repeatability	0.5% of reading
	Offset shift due to temperature variation	None (less than resolution)
	Span shift due to temperature variation	< 0.5% of reading per 10°C
	Wetted materials	
Enclosure	P-DP30-XXX (Panel Mount)	Open frame, 35mm DIN rail or screw mount
	P-DP31-XXX (Duct or Panel Mount)	IP65, screw mount, brass hose barb fittings
	P-DP32-XXX (Duct Mount w/pickup tube)	IP65, screw mount, brass hose barb fitting and static pickup tube

ORDERING

PDP3

Package

- 0 = Open Frame
- 1 = NEMA 4
- 2 = NEMA 4 / duct probe

Pressure Range

- 001 = 0-1" (0.1, 0.5, 1.0)
 - 002 = 0-2" (0.5, 1, 2")
- Selectable uni/bi-directional



As small as a credit card.

+2% drift

Your system performs to specification with Senva intrinsic flow technology....saving energy and improving tenant comfort.

SENA ZERO DRIFT!

+1% drift

The competition pales by comparison (they typically drift +/-1% to 2%)

-1% drift

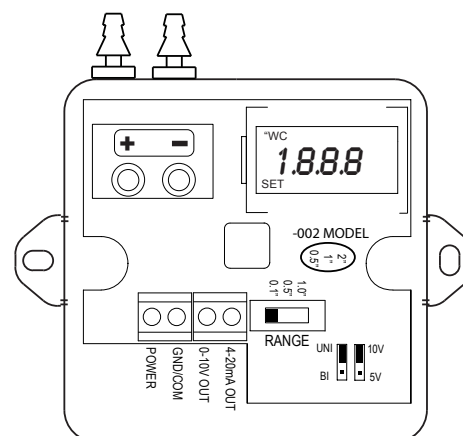
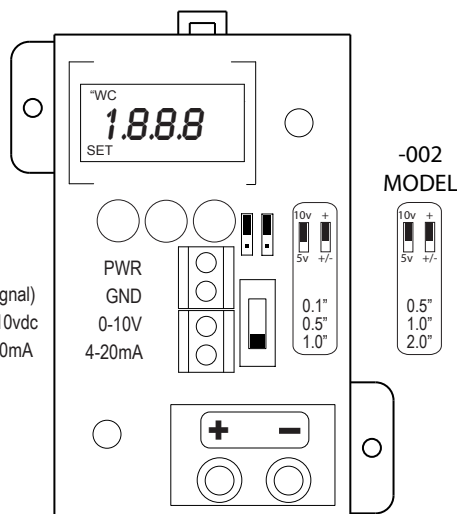
+2% drift

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 = Power Supply +
 GND/COM = Common (power & signal)
 0-10V OUT = Voltage output 5v/10vdc
 4-20mA OUT = Current output 4-20mA

(PWR and GND required for both Vdc and mA operation)