

PDA Series Digital Pressure Transmitter



Benefits and Features

- Ranges 0-30" Hg Vacuum to 0-5800 PSIG
- Fully Scalable 4-20 mA Output
- Accuracy $\pm 0.5\%$ of Full Scale
- Large Easy to Read LED Display
- Ceramic Pressure Sensing System for High Cycle Life
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General Description

The PDA series digital pressure transmitter integrates the latest solid state sensing technology into a very versatile, simple to operate package. Programming features include programmable span adjustment, pulsation dampening, zero (tare) adjustment and user settable lockout code. The ceramic sensing system ensures an exceptionally long cycle life with virtually no calibration drift. These features along with the compact, robust stainless steel package make the PDA an ideal choice for OEM applications.

Specifications

Measuring Ranges: 0-30" Hg vacuum to 0-5800 PSIG

Display Type: 3 digit LED

Accuracy: $\pm 0.5\%$ of full scale

Sensor Element: Piezoresistive bceramic

Operating Temp. Range

Process & Compensated

Medium: -4 to 176°F

Ambient: -4 to 140°F

Overpressure Ratings:

-30" Hg to

1450 PSIG: 2x Max. range

>1450 PSIG: 1.5x Max. range

Process Wetted Parts

Sensing Element: Ceramic

Connection: 316L SS

O-Ring: Viton; others available on request

Housing Material: 304 Stainless Steel

Response Time: 0.5 Sec.

Dampening: Programmable averaging over 1, 2, 4, 8, 16, 32 or 64 samples

Electrical Data

Power Supply: 24 VDC $\pm 20\%$, 80 mA max.

Output: 0(4)-20 mA 3-wire

Max. Loop Burden: 500 ohms

Electrical

Connection: 4-Pin Micro-DC male (mating connector sold as accessory)

Electrical

Protection: NEMA 4/IP 65

PDA Series Digital Pressure Transmitter

Ordering Information

PDA Series Ordering Codes	
PDA	= Digital Electronic Pressure Transmitter
153	Output Type = 0(4)-20 mA
N2 N4	Fitting = 1/4" NPT = 1/2" NPT (standard)
H315 P025 P045 P055 P065 P075 P085 E	Ranges <u>Available Measuring Ranges</u> = -30" to 0" Hg = 15 PSIG = 30 PSIG = 50 PSIG = 100 PSIG = 150 PSIG = 200 PSIG = Special Range
P090 P100 P115 P125 P130 P140 P150 P155	= 300 PSIG = 500 PSIG = 1000 PSIG = 1450 PSIG = 2000 PSIG = 3000 PSIG = 5000 PSIG = 5800 PSIG
Accessories	
Part#: 807.037 = Mating 4-Pin Micro-DC connector w/ 6ft. cable	
PDA - 153 - N4 - P065	Example

Dimensions

