

Differential Pressure Transducer for Air LX-PD-A

LX-PD-A is an accurate, temperature compensated differential pressure transducer for demanding HVAC applications.

Details

The differential pressure transducer for air LX-PD-A can be used to measure positive, negative or differential pressure in four different ranges. The piezoresistive sensor is ideal for monitoring the pressure of air or other clean inert gases and is limited only to those media which will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM and neoprene seals.

The product features field selectable pressure ranges and output signal types for the most flexible applications. Typical HVAC applications include monitoring of filter differential pressure or VAV applications. The output signal is factory calibrated and temperature compensated for highest startup accuracy and trouble-free operation. Also available with an LCD display for local measurement reading.

Order Code

LX-PD-A

LX-PD-A-LCD (optional, with display)

- Four jumper selectable pressure ranges
- Jumper selectable output signal
- Functional weather resistant ABS enclosure
- 24 VAC/DC power supply
- LCD display (optional)



Technical Data

Pressure Ranges:	±250, ±500, 500, 1000 Pa, jumper selectable
Calibration Accuracy:	± 1% F.S.O.
Measurement Types:	Differential (two ports), Static, Velocity, and Total Pressures
Response Time:	1 ms maximum
Stability:	< ±1% F.S.O. per year
Thermal Effects:	< ±3% over compensated range
Compensated Range:	10 – 50 °C
Over Pressure:	13 kPa or 2 x range (whichever is greater)
Operating Conditions:	0 – 60 °C, 10 – 90% RH non-condensing
Media Compatibility:	Limited only to those that will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM, and neoprene seals. Typically dry air or inert gas but liquid is allowed.
Power Supply (at transmitter):	12 – 28 VAC, 16.5 – 35 VDC (non-isolated half-wave rectified)
Supply Current:	< 4 mA
Input Voltage Effect:	Negligible over specified operating range
Protection Circuitry:	Reverse voltage protected and output limited
Output Signal:	4 – 20 mA or 0 – 10 VDC
Zero Adjustment:	Push button auto-zero
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Pressure Connections:	Barbed ports for 4.33 mm (0.170") ID flexible tubing
Conduit Connection:	Access hole for 1/2" NPT conduit or cable gland
Optional LCD:	3.5 digit, 10 mm (0.4") digit height
Enclosure High:	Impact black ABS, IP65, plenum rated with optional gasket 116mm (W) x 8 mm (H) x 53mm (D)
Manufacturing Process:	ISO9001