

## **Air pressure difference sensor**

- >> Ranges 250 to 1000 Pa
- >> Four variable jumper selectable pressure ranges
- >> Jumper selectable 2 wire current and 3 wire voltage outputs standard
- >> 24 VAC/DC power supply standard
- >> LCD display and integrated static probe available

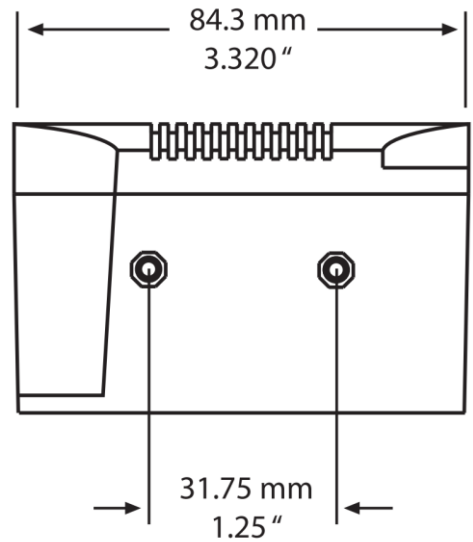
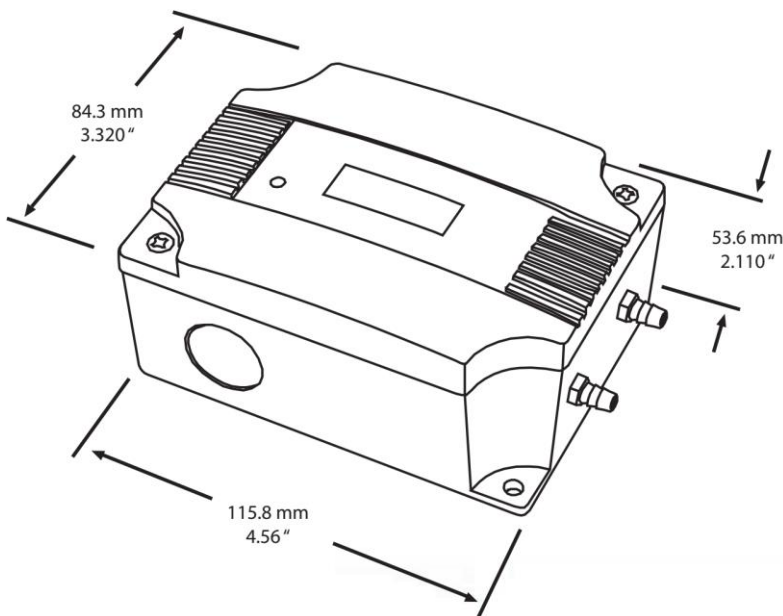
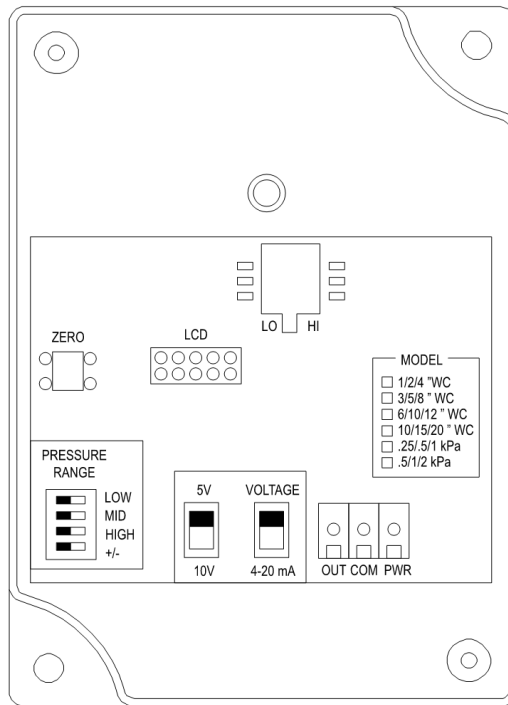


### **Air pressure difference measurement**

The FX-PDS-A Low Pressure Transmitter can be used to measure positive, negative or differential pressure in the ranges of 250 to 1000 Pa. The piezoresistive sensor is ideal for monitoring the pressure for air or other clean inert gas and is limited only to those media which will not attack polyetherimide, silicon, fluorosilicone, silicone, EPDM and neoprene seals. The FX-PDS-A 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. Available options include LCDs and integrated static pressure probes.

#### **Technical features**

Pressure Ranges:	±250, ±500, ±1000 Pa (field adjustable)
Accuracy:	±1% F.S.O.
Measurement Type:	Differential (two port), Static, Velocity, & Total Pressure
Response Time:	250 ms
Stability:	< ±1% F.S.O. per year
Thermal Effects:	< ±3% over compensated range
Compensated Range:	0 - 50° C (32 - 122°F)
Proof Pressure:	40" W.C. (100" for 10" & 20" Models)
Burst Pressure:	60" W.C. (200" for 10" & 20" Models)
Operating Conditions:	0 - 70°C (32 - 158°F), 10 - 90 %RH, non-condensing
Power Supply:	20 - 28 Vac/dc (non-isolated half-wave rectified)
Supply Current:	< 4 mA
Input Voltage Effect:	Negligible over operating range
Protection Circuitry:	Reverse voltage protected and output limited
Output Signal:	4-20 mA (2-wire), 0-5 or 0-10 Vdc (3-wire), switch selectable
Output Drive Capabilities:	Current: 400 ohms max @ 24 vdc Voltage: 10K ohms min
Zero Adjustments:	Pushbutton auto-zero
Wiring Connections:	Screw terminal block (14 to 22 AWG)
Pressure Connection:	Barbed ports for 5 mm (0.170" ID) flexible tubing
Conduit Connection:	½" NPT conduit or cable gland
Optional Display:	3½ digit LCD, 0.4" digit height
Enclosures:	ABS, plenum rated
Weight:	159 grams (5.6 oz)
Manufacturing Process:	ISO9001



## Part numbers

**FX-PDS-A**  
**FX-PDS-A-LCD**

Ranges  $\pm 250$ ,  $\pm 500$ ,  $\pm 1000$  Pa  
with 3-digit LCD display