

Differential Pressure Transmitter for HVAC



Model Wise Description:

Model	Product Description
DPX-3000	Single channel differential pressure sensor with transmitter.

Features:

- Built-in differential Pressure sensor.
- 4-20mA or 0 to 10VDC proportional to DP range
- IP 65 ABS plastic enclosure.
- Lockable fixture for standard 4 mm PVC pipes.
- Operates on 18 to 36VDC.
- Measurement range of 0 to 300 pascal

Partners in Measurement and Control (21062016)

401-403, Diamond Industrial Estate, Ketki Pada Road, Dahisar east, Mumbai 400068, Maharashtra, India.
Tel/Fax: 91-22-42555353,42555349. Email: libratherm@libratherm.com sales@libratherm.com

Applications:

- Medical and Pharmaceutical test equipment
- Altitude and Air speed measurement
- Process control and Factory Automation
- Leak Detection etc...

Product Description:

Differential Pressure Transmitter model DPX-3000 is designed using the temperature compensated, piezo -resistive silicon pressure sensor packaged in a dual-inline configuration and intended for cost sensitive applications where excellent performance and long-term stability are required. Integral temperature compensation is provided over a range of 0-50°C using laser-trimmed resistors. The differential signal generated by the pressure sensor is converted to equivalent 4-20mA/0-10VDC retransmission signal in the desired calibration range. The 4-20mA/0-10VDC signal is isolated from the DC power supply. The pressure transmitters DPX-3000 is available in differential pressure ranges from 0-125 pascal and 0 to 500 pascal.

Technical Specification:

Model	DPX-3000
Sensor Make	Model 4425 from Measurement Specialties - France
Standard signal Cable	1 meter long
Pressure Linearity	+/-0.25%
Process Input	Self lockable nozzle for Industrial standard 4 mm pvc tube.
DP Range	Desired range can be specified by the user – as per table given below
Output	4 – 20 mA or 0-10VDC proportional to the specified range
Isolation	4-20mA / 0-10V signal is galvanically isolated from the supply.
Load Resistance	RLmax = 400 Ohms @ 24VDC
Supply Voltage	18 - 36VDC @ 100mA max
Enclosure	ABS plastic IP-65 with suitable wall mounting clamps.
Enclosure Size	120 h x 80 w x 55 d mm.

Partners in Measurement and Control (21062016)

401-403, Diamond Industrial Estate, Ketki Pada Road, Dahisar east, Mumbai 400068, Maharashtra, India.
 Tel/Fax: 91-22-42555353,42555349. Email: libratherm@libratherm.com sales@libratherm.com

Standard Calibration Ranges / Ordering code:

Sr. No.	ORDERING MODEL- CODE	DP IN PASCAL	DP IN mmWC	OUTPUT
1.1	DPX-3000-15C	0 to 150	0 to 16	4-20mA
1.2	DPX-3000-15V	0 to 150	0 to 16	0-10V
2.1	DPX-3000-30C	0 to 300	0 to 30	4-20mA
2.2	DPX-3000-30V	0 to 300	0 to 30	0-10V
3.1	DPX-3000-60C	0 to 600	0 to 60	4-20mA
3.2	DPX-3000-60V	0 to 600	0 to 60	0-10V
4.1	DPX-3000-100C	0 to 1000	0 to 102	4-20mA
4.2	DPX-3000-100V	0 to 1000	0 to 102	0-10V