

Room Pressure Sensor with Display LX-PD-R-LCD

The differential pressure sensor LX-PD-R-LCD is suitable for technical rooms, featuring high level outputs, environmental protection, and temperature compensation.

Details

The differential pressure sensor for technical rooms can be used to measure positive, negative or differential pressure in the following ranges 0-30, ±30 or 0-60, ±60 or 0-125, ±125 or 0-250, ±250 Pascal. It combines precision high sensitivity silicon sensing capabilities and the latest ASIC technology with Dynamic Self Compensation to substantially reduce offset errors due to changes in temperature, stability to warm-up, long term instability and position sensitivity. It is ideal for monitoring pressure for air and other clean inert gas and is limited only to those media which will not attack silicon, nylon and epoxy adhesive.

The product features a selectable uni- or bi-directional pressure range and output signal types for the most flexible applications. An optional on-board relay output, which is field adjustable, allows for an alarm function.

Order Codes

LX-PD-R-LCD-30 LX-PD-R-LCD-A-30 (with relay) LX-PD-R-LCD-60 LX-PD-R-LCD-A-60 (with relay) LX-PD-R-LCD-125 LX-PD-R-LCD-A-125 (with relay) LX-PD-R-LCD-250 LX-PD-R-LCD-A-250 (with relay)

Technical Data

Pressure Ranges: Calibration Accuracy: Measurement Types: Response Time: Thermal Effects: Compensated Range: Over Pressure: **Operating Conditions:** Media Compatibility:

Power Supply (at transmitter): Supply Current: Input Voltage Effect: Protection Circuitry: Output Signal: Current Output Drive Capability Voltage Output Drive Capability: Zero Adjustment: Wiring Connections: Pressure Connections: Conduit Connection: **Optional LCD:** Enclosure High:

- LCD display
- Alarm output
- Functional weather resistant ABS enclosure



Note: Since 2014 case color will be grey



0-30, ±30 or 0-60, ±60 or 0-125, ±125 or 0-250, ±250 Pa
± 1% F.S.O.
Differential (two ports)
0,5 ms maximum
< ±3% over compensated range
10 – 50°C (50 – 122°F)
25 kPa
0 – 70° C (32 – 158° F), 10 – 90% RH non-condensing
Low Port: Dry gases only, media must be compatible with epoxy adhesive
High Port: Wetted materials compatible with nylon housing, epoxy adhesive and silicon.
13 - 28 Vac. $18 - 35$ Vdc (non-isolated half-wave rectified)
< 30 mA (without relay), or 50 mA (with relay option)
Negligible over specified operating range
Reverse voltage protected and output limited
4 - 20 mA (2 -wire), 0 - 5 Vdc or 0 - 10 Vdc (3 -wire), jumper selectable
550 ohms
10 Kohms minimum for 0 – 10 Vdc signal
Push button auto-zero
Screw terminal block (14 to 22 AWG)
Barbed ports for 4.33 mm (0.170") ID flexible tubing
Access hole for 1/2" NPT conduit or cable gland
3.5 digit, 10 mm (0.4") digit height
Impact black ABS, plenum rated with optional gasket 116 mm W x 84 mm H x 53 mm D

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