LOW PRESSURE TRANSMITTER

LP Series

The LP series incorporates:

* panel and duct mount configurations
* 6 jumper selectable pressure ranges per model, W.C. or Pa
* Ranges up to 20” W/2000 Pa
* jumper selectable 2 wire current and 3 wire voltage outputs
* hinged and gasketed polycarbonate enclosure

PRODUCT HIGHLIGHTS

* differential (two port), Static, Velocity, & Total Pressure
* pushbutton auto-zero
* solid, reliable mounting

ENGINEERING SPEC’S

* Shall be IP65 (NEMA 4X) with a UL94-V0 rated enclosure
* External mounting tabs must be slotted & tapered away from enclosure to ease field installation
* Enclosure shall be complete with neoprene gasket for duct to enclosure seal
* Enclosure shall be complete with threaded (1/2 NPT and/or M16) conduit connection
* Cover must be hinged and securely attached in the open position
* Operating range must be 0 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing
* Cover must contain security screw as extra protection from opening
* Product shall be CE approved

SPECIFICATIONS

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| SPECIFICATIONS |  |
| ACCURACY | ±1% F.S. of selected range (minimum range is ±1.5% F.S.) @ 22°C (72°F) including hysteresis, non-linearity and repeatability |
| SENSOR TYPE | Piezoresistive differential pressure |
| 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 to 50°C (32 to 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 to 50°C (32 to 122°F), 5 to 95 %RH, non-condensing |
| POWER SUPPLY | 20 to 28 Vac/dc (non-isolated half-wave rectified) |
| SUPPLY CURRENT | **Current:** 20 mA maximum  **Voltage:** 4 mA minimum |
| 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 @  24 VDC | **Current:** 400 Ω maximum  **Voltage:** 10,000 Ω minimum |
| ZERO ADJUSTMENTS | Pushbutton auto-zero |
| MAX LOOP CURRENT | 20 mA |
| WIRING CONNECTIONS | Screw terminal block (14 to 22 AWG) |
| PRESSURE CONNECTION | Barbed ports for 5 mm (0.170” ID) flexible tubing |
| CONDUIT CONNECTION | 1/2” NPT conduit or cable gland |
| DISPLAY | 3 1/2 digit LCD, 0.4” digit height |
| ENCLOSURE | **B:** Grey Polycarbonate UL94-V0, IP65 (NEMA 4X)  **F:** Same as B, with thread adapter (1/2” NPT to M16) and cable gland fitting |
| APPROVALS | CE, RoHS |
| COUNTRY OF ORIGIN | Canada |