

STATIC PROBE ECONOMY LOW PRESSURE TRANSMITTER

ELP-S Series

The Economy Low Pressure Transducer can be used to measure positive, negative or differential pressure in the ranges of 1”wc to 20”wc and 250 Pa to 5000 Pa. The highly accurate piezoresistive sensor is ideal for monitoring pressure of non-corrosive, non-ionic working fluids such as clean dry air or other inert gases. It features field selectable output signal types for the most flexible application. Typical HVAC applications include monitoring of filter differential pressure or clean room pressure. The output signal is factory calibrated and temperature compensated for highest startup accuracy and trouble-free operation.

PRODUCT HIGHLIGHTS

* Multiple ranges available
* Two jumper selectable ranges per model
* Jumper selectable current or voltage output
* Polycarbonate enclosure with hinged and gasketed cover

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), 10 to 90 %RH, non-condensing
* Cover must contain security screw as extra protection from opening
* Product shall be CE approved

SPECIFICATIONS

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| DESCRIPTION | ENGINEERING SPEC |
| PRESSURE RANGES | ±1", ±2", ±5", ±10", ±20" WC, ±250 Pa, ±500 Pa, ±1250 Pa, ±2500,±5000 Pa |
| ACCURACY | ±1% F.S.O. |
| MEASUREMENT TYPE | Differential (two port) |
| RESPONSE TIME | 250 ms |
| STABILITY | <±1% F.S.O. per year |
| THERMAL EFFECTS | <±3% over compensated range |
| COMPENSATED RANGE | -25 to 85°C (-13 to 185°F) |
| PROOF PRESSURE | 100”W.C. (200” for 5”, 10” & 20” models) |
| BURST PRESSURE | 300” W.C. (500” for 20” model) |
| OPERATING CONDITIONS | 0 to 50°C (32 to 122°F), 10 to 90 %RH, non-condensing |
| POWER SUPPLY | 20-28 Vac/dc (non-isolated half-wave rectified) |
| SUPPLY CURRENT | <4 mA for voltage output, 20 mA max for current output |
| PROTECTION CIRCUITRY | Reverse voltage protected and output limited |
| OUTPUT SIGNAL | 4-20 mA (2-wire) or 0-10 Vdc (3-wire), field selectable |
| OUTPUT DRIVE CAPABILITIES | Current: 400Ω max @ 24 VdcVoltage: 10KΩ min |
| ZERO ADJUSTMENTS | Push-button 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 |
| ENCLOSURE | Polycarbonate UL94-V0, IP65F style includes thread adapter (1/2” NPT to M16) and cable gland fitting |
| APPROVALS | CE, RoHS |
| COUNTRY OF ORIGIN | Canada |



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