





DIFFERENTIAL PRESSURE TRANSMITTER WITH VALVE BRACKET

DP – 3VB Series

The differential pressure transmitter includes a pipe-to-pipe 3-valve manifold option. The manifold consists of two isolation (block) valves and an equalizer valve. The 3-valve manifold assembly simplifies installation, allows easy service without disruption of the process and reduces costs when compared to using individual components.

The differential pressure transmitter is designed with dual remote sensors that enable it to accept high pressure in several ranges up to 500 PSI, 30 Bar or 3000 kPa. All models can handle overload pressure 2X and burst pressure 20X the maximum full scale range.

Features include field selectable pressure ranges and output signal types, output reversal and slow damping, port swapping and bidirectional measurements for the most flexible applications. The pressure transmitter is fully factory calibrated and temperature compensated for the highest start-up accuracy.

PRODUCT HIGHLIGHTS

* Pipe-to-pipe 3-valve manifold
* 4 field selectable ranges
* Switch selectable uni or bi-directional
* Hinged polycarbonate weatherproof enclosure

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 |
| POWER SUPPLY | 24 Vac/dc ±10% (non-isolated half-wave rectified) |
| CONSUMPTION | 75 mA max @ 24 Vdc |
| OUTPUT SIGNAL | 4-20 mA sourcing, 0-5/0-10 Vdc (jumper selectable) |
| OUTPUT DRIVE | 500Ω max for current output  10KΩ min for voltage output |
| PROTECTION CIRCUITRY | Reverse voltage protected, transient protected |
| LCD | 35mm W x 15mm H (1.4” x 0.6”), 2-lin x 8-character |
| ACCURACY | ±1% full scale of selected range (range 4 is ±2%) |
| STABILITY | ±0.25% FS typical (1 year) |
| PRESSURE RANGES | 4 per model (menu selectable) |
| MEDIA COMPATIBILITY | 17-4 PH stainless steel |
| PROOF PRESSURE | 2X highest range per model |
| BURST PRESSURE | 20X highest range per model |
| MAXIMUM LINE PRESSURE | = highest model range |
| PRESSURE CYCLES | >100 million |
| SURGE DAMPING | 1-60 seconds averaging (menu selectable) |
| ZERO ADJUST | Push-button and remote input |
| SENSOR OPERATING RANGE | -40 to 105°C (-40 to 221°F) |
| OPERATING ENVIRONMENT | 0 to 50°C (32 to 122°F), 10 to 90 %RH non-condensing |
| PRESSURE CONNECTION | ½” NPT male |
| SENSOR HOUSING | IP67 |
| REMOTE SENSOR CABLE | S: FT-6 plenum rated  A: Armored flexible S/S |
| WIRING CONNECTION | 14-22 AWG screw terminal block |
| ENCLOSURE | Polycarbonate, UL94-V0, IP65 (NEMA 4X)  F style includes thread adapter (1/2” NPT to M16) and cable gland fitting |
| WEIGHT | 2380g (83.95oz) – Including remote cables and sensors |
| COUNTRY OF ORIGIN | Canada |