

VELTRON DPT

ULTRA-LOW DIFFERENTIAL PRESSURE AND FLOW TRANSMITTER

OPTIONS

- ☐ Bi-Polar (+/-) Operating Span
- ☐ Square Root Function
- ☐ LCD Display
- ☐ Stainless Steel I.D. Tag
- ☐ 3 Valve Manifold

Certification

- ☐ Standard
- ☐ NIST Traceable

PERFORMANCE SPECIFICATIONS

Accuracy.

±0.5% of Natural Full Span, including non-linearity, hysteresis, deadband, and non-repeatability.

Stability.

±0.5% of Natural Full Span for six months.

Temperature Effect.

Zero. 0.015% of Natural Full Span/°F.
Span. 0.015% of Natural Full Span/°F.

Mounting Position Effect.

Zero shift only, no span shift.
0.1" Full Span < 0.5% of Full Span
0.25" Full Span < 0.25% of Full Span
0.5"+ Full Span < 0.1% of Full Span
Corrected through transmitter zeroing.

Power Supply Effect.

±0.005% of Full Span/VDC.

FUNCTIONAL SPECIFICATIONS

Outputs.

4-20mA DC.

Power Supply.

14-40VDC (0 to 1200 ohms). Refer to load chart.
Two-wire configuration.

Damping.

Time constant adjustable from .25 to 10 sec.

Overpressure/Static Pressure Limit.

25 psig.

Circuit Protection.

Power input is reverse polarity short circuit proof.

Span and Zero Adjustment.

External, continuously adjustable 30 turn potentiometers.

Zero Elevation/Suppression.

Maximum zero elevation: 100% of Natural Full Span.
Requires optional bi-polar transducer.
Maximum zero suppression: 6mV of Natural Full Span.

Indication.

Optional 3½ digit LCD.

Humidity Limits.

0-95% RH (non-condensing).

Temperature Limits.

- 20°F to 180°F Storage.
+32°F to 140°F Operating.

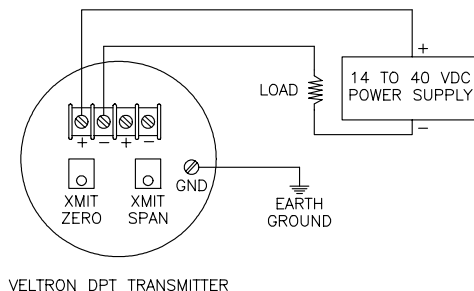
Hazardous Locations.

Factory Mutual Approved.
• Explosion Proof.
Class 1, Division 1, Groups B,C,D.
• Dust Ignition Proof.
Class II & III, Division 1, Groups E,F,G.
• Suitable for indoor and outdoor NEMA Type 4X hazardous locations.

Load Limitations.

50 ohms/volt.
0 ohms at 14VDC.
1300 ohms at 40VDC.

Field Wiring Detail



Load vs. Power Supply Voltage

