

# VELTRON DPT

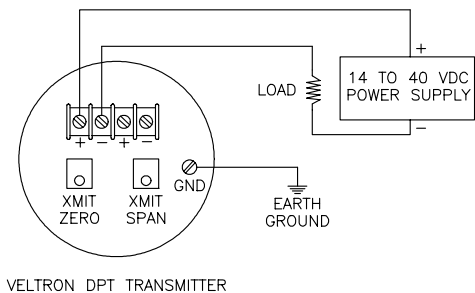
## ULTRA-LOW DIFFERENTIAL PRESSURE AND FLOW TRANSMITTER

<b>OPTIONS</b> <input type="checkbox"/> Bi-Polar (+/-) Operating Span <input type="checkbox"/> Square Root Function <input type="checkbox"/> LCD Display <input type="checkbox"/> Stainless Steel I.D. Tag <input type="checkbox"/> 3 Valve Manifold	<b>Certification</b> <input type="checkbox"/> Standard <input type="checkbox"/> NIST Traceable
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<b>PERFORMANCE SPECIFICATIONS</b>  <b>Accuracy.</b> $\pm 0.5\%$ of Natural Full Span, including non-linearity, hysteresis, deadband, and non-repeatability.  <b>Stability.</b> $\pm 0.5\%$ of Natural Full Span for six months.  <b>Temperature Effect.</b> Zero. 0.015% of Natural Full Span/ $^{\circ}$ F. Span. 0.015% of Natural Full Span/ $^{\circ}$ F.	<b>Mounting Position Effect.</b> 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.  <b>Power Supply Effect.</b> $\pm 0.005\%$ of Full Span/VDC.
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<b>FUNCTIONAL SPECIFICATIONS</b>  <b>Outputs.</b> 4-20mADC.  <b>Power Supply.</b> 14-40VDC (0 to 1200 ohms). Refer to load chart. Two-wire configuration.  <b>Damping.</b> Time constant adjustable from .25 to 10 sec.  <b>Overpressure/Static Pressure Limit.</b> 25 psig.  <b>Circuit Protection.</b> Power input is reverse polarity short circuit proof.  <b>Span and Zero Adjustment.</b> External, continuously adjustable 30 turn potentiometers.  <b>Zero Elevation/Suppression.</b> Maximum zero elevation: 100% of Natural Full Span. Requires optional bi-polar transducer. Maximum zero suppression: 6mys0% of Natural Full Span.	<b>Indication.</b> Optional 3½ digit LCD.  <b>Humidity Limits.</b> 0-95% RH (non-condensing).  <b>Temperature Limits.</b> - 20°F to 180°F Storage. +32°F to 140°F Operating.  <b>Hazardous Locations.</b> Factory Mutual Approved. <ul style="list-style-type: none"> <li>• Explosion Proof.</li> <li>• Class 1, Division 1, Groups B,C,D.</li> <li>• Dust Ignition Proof.</li> <li>• Class II &amp; III, Division 1, Groups E,F,G.</li> <li>• Suitable for indoor and outdoor NEMA Type 4X hazardous locations.</li> </ul> <b>Load Limitations.</b> 50 ohms/volt. 0 ohms at 14VDC. 1300 ohms at 40VDC.
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**Field Wiring Detail**



**Load vs. Power Supply Voltage**

