

# SUBMITTAL SHEET

## VELTRON DPT-*plus* MICROPROCESSOR BASED ULTRA-LOW RANGE PRESSURE, FLOW, AND MASS FLOW INDICATING TRANSMITTER

<p><b>OPTIONS</b></p> <p><input type="checkbox"/> Temperature Compensation</p> <p><input type="checkbox"/> Bi-Polar (+/-) Operating Span</p> <p><input type="checkbox"/> Stainless Steel I.D. Tag</p> <p><input type="checkbox"/> 3 Valve Manifold</p> <p><input type="checkbox"/> Isolated Outputs</p>	<p><input type="checkbox"/> AUTO-purge Management (via ext. smart relay in AUTO-purge enclosure) or</p> <p><input type="checkbox"/> Alarms (select one below)</p> <p style="padding-left: 20px;"><input type="checkbox"/> Low/High    <input type="checkbox"/> High<sub>1</sub>/High<sub>2</sub></p> <p style="padding-left: 20px;"><input type="checkbox"/> Low<sub>1</sub>/Low<sub>2</sub></p>	<p><b>Certification</b></p> <p><input type="checkbox"/> Standard</p> <p><input type="checkbox"/> NIST Traceable</p>												
<p><b>PERFORMANCE SPECIFICATIONS</b></p> <p><b>Accuracy.</b> ±0.1% of Natural Span, including non-linearity, hysteresis, deadband, and non-repeatability.</p> <p><b>Stability.</b> ±0.5% of Natural Span for six months.</p> <p><b>Temperature Effect.</b> Zero. None; corrected by AUTO-zero. Span. 0.015% of Full Span/°F.</p>														
<p><b>FUNCTIONAL SPECIFICATIONS</b></p> <p><b>Digital Outputs.</b> Dual form A contacts rated for 3 amps at 24VAC/VDC for optional HI/LO alarm or AUTO-purge acknowledgment.</p> <p><b>Digital Inputs.</b> Dry contact for AUTO-purge external start command.</p> <p><b>Analog Outputs.</b> Dual 4-20mA outputs, configurable as internally powered/non-isolated or externally powered/isolated.</p> <p><b>Analog Input.</b> Single 4-20mA, 2-wire, internally or externally powered temperature signal.</p> <p><b>AUTO-purge Management.</b> AUTO-purge cycle is initiated via an external dry contact input via Q4 of smart relay installed in AUTO-purge enclosure. An SPDT dry contact provides purge acknowledgment.</p> <p><b>Power Supply.</b> Standard 24VAC (20-28VAC) or 24VDC (20-40VDC), with automatic selection. Optional 120VAC (100-132VAC), via external transformer.</p> <p><b>Low Pass Filtration.</b> Response time to reach 98% of a step change is adjustable from 2.0 to 250.0 seconds.</p> <p><b>Automatic Zeroing.</b> Accuracy. Within 0.1% of calibrated span. Frequency. Every 1 to 24 hours on 1 hour intervals.</p> <p><b>Overpressure and Static Pressure Limit.</b> 25 psig.</p> <p><b>Circuit Protection.</b> Power input is fused and reverse polarity protected.</p> <p><b>Zero and Span Adjustment.</b> Zero Elevation: 100% of calibrated span. Requires optional bi-polar transducer. Zero Suppression: 60% of calibrated span.</p>														
<p><b>Mounting Position Effect.</b> None; corrected by AUTO-zero.</p> <p><b>Transducer Response Time.</b> 0.5 seconds to reach 98% of a step change.</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="text-align: center;">In Rush</td> <td style="text-align: center;">Hold</td> </tr> <tr> <td style="text-align: center;">24VAC</td> <td style="text-align: center;">9.6VA</td> <td style="text-align: center;">9.0VA</td> </tr> <tr> <td style="text-align: center;">24VDC</td> <td style="text-align: center;">6W</td> <td style="text-align: center;">6W</td> </tr> <tr> <td style="text-align: center;">120VAC</td> <td style="text-align: center;">13.52VA</td> <td style="text-align: center;">12.69VA</td> </tr> </table> <p><b>Power Consumption.</b></p>				In Rush	Hold	24VAC	9.6VA	9.0VA	24VDC	6W	6W	120VAC	13.52VA	12.69VA
	In Rush	Hold												
24VAC	9.6VA	9.0VA												
24VDC	6W	6W												
120VAC	13.52VA	12.69VA												
<p><b>Display.</b> A backlit, graphical LCD providing three lines of data display. Also used for programming.</p> <p><b>Humidity Limits.</b> 0-95% RH, non-condensing.</p> <p><b>Temperature Limits.</b> - 20°F to 180°F Storage. +32°F to 140°F Operating.</p> <p><b>Hazardous Locations.</b> Factory Mutual Approved.</p> <ul style="list-style-type: none"> <li>• Explosion Proof. Class 1, Division 1, Groups B,C,D.</li> <li>• Dust Ignition Proof. Class II &amp; III, Division 1, Groups E,F,G.</li> <li>• Suitable for indoor and outdoor NEMA Type 4X hazardous locations.</li> </ul>														
<p><b>Generic Field Wiring Detail *</b></p> <p style="text-align: right; font-size: small;">* MAINTAIN POLARITY WHEN CONNECTING MULTIPLE TRANSMITTERS TO A COMMON POWER SOURCE</p>														