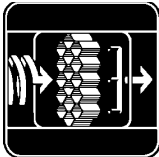


SUBMITTAL SHEET

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

| | | | | | | | | | | | | | | |
|---|--|---|--|---------|------|-------|-------|-------|-------|----|----|--------|---------|---------|
| <p>OPTIONS</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><input type="checkbox"/> Low/High <input type="checkbox"/> High₁/High₂</p> <p><input type="checkbox"/> Low₁/Low₂</p> | <p>Certification</p> <p><input type="checkbox"/> Standard</p> <p><input type="checkbox"/> NIST Traceable</p> | | | | | | | | | | | | |
| <p>PERFORMANCE SPECIFICATIONS</p> <p>Accuracy. ±0.1% of Natural Span, including non-linearity, hysteresis, deadband, and non-repeatability.</p> <p>Stability. ±0.5% of Natural Span for six months.</p> <p>Temperature Effect. Zero. None; corrected by AUTO-zero. Span. 0.015% of Full Span/°F.</p> | | | | | | | | | | | | | | |
| <p>FUNCTIONAL SPECIFICATIONS</p> <p>Digital Outputs. Dual form A contacts rated for 3 amps at 24VAC/VDC for optional HI/LO alarm or AUTO-purge acknowledgment.</p> <p>Digital Inputs. Dry contact for AUTO-purge external start command.</p> <p>Analog Outputs. Dual 4-20mA outputs, configurable as internally powered/non-isolated or externally powered/isolated.</p> <p>Analog Input. Single 4-20mA, 2-wire, internally or externally powered temperature signal.</p> <p>AUTO-purge Management. 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>Power Supply. Standard 24VAC (20-28VAC) or 24VDC (20-40VDC), with automatic selection. Optional 120VAC (100-132VAC), via external transformer.</p> <p>Low Pass Filtration. Response time to reach 98% of a step change is adjustable from 2.0 to 250.0 seconds.</p> <p>Automatic Zeroing. Accuracy. Within 0.1% of calibrated span. Frequency. Every 1 to 24 hours on 1 hour intervals.</p> <p>Overpressure and Static Pressure Limit. 25 psig.</p> <p>Circuit Protection. Power input is fused and reverse polarity protected.</p> <p>Zero and Span Adjustment. Zero Elevation: 100% of calibrated span. Requires optional bi-polar transducer. Zero Suppression: 60% of calibrated span.</p> | | | | | | | | | | | | | | |
| <p>Mounting Position Effect. None; corrected by AUTO-zero.</p> <p>Transducer Response Time. 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>Power Consumption.</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>Display. A backlit, graphical LCD providing three lines of data display. Also used for programming.</p> <p>Humidity Limits. 0-95% RH, non-condensing.</p> <p>Temperature Limits. - 20°F to 180°F Storage. +32°F to 140°F Operating.</p> <p>Hazardous Locations. Factory Mutual Approved.</p> <ul style="list-style-type: none"> • 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. | | | | | | | | | | | | | | |
| <p>Generic Field Wiring Detail *</p> <p style="text-align: right; font-size: small;">* MAINTAIN POLARITY WHEN CONNECTING MULTIPLE TRANSMITTERS TO A COMMON POWER SOURCE</p> | | | | | | | | | | | | | | |
| <p>* Above Field Wiring Detail is generic. Please refer to O&M Manual for additional details.</p> | | | | | | | | | | | | | | |



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