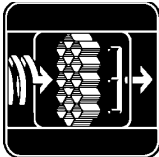


# VEL-trol II

## ULTRA-LOW RANGE DIFFERENTIAL PRESSURE/ FLOW TRANSMITTER / CONTROLLER

<p><b>OPTIONS</b></p> <p><input type="checkbox"/> Alarms or <input type="checkbox"/> AUTO-purge Management</p> <p><input type="checkbox"/> Auxiliary Output</p> <p><input type="checkbox"/> Terminal Cover/Conduit Connection</p> <p><b>Controller</b></p> <p><input type="checkbox"/> Ext. Setpoint</p> <p><input type="checkbox"/> P,I,1/2<sub>p</sub>Control</p>	<p><b>Display</b></p> <p><input type="checkbox"/> 2x20 LCD (standard)</p> <p><input type="checkbox"/> 4x20 LCD</p> <p><b>Power</b></p> <p><input type="checkbox"/> 24VAC</p> <p><input type="checkbox"/> 20-40VDC</p> <p><input type="checkbox"/> 120VAC (via external transformer)</p>	<p><b>Certification</b></p> <p><input type="checkbox"/> Standard</p> <p><input type="checkbox"/> NIST Traceable</p> <p><b>Special Function</b></p> <p><input type="checkbox"/> % Deviation</p> <p><input type="checkbox"/> Differential Flow</p> <p><input type="checkbox"/> Summed Flow</p> <p><input type="checkbox"/> Averaged Flow</p> <p><input type="checkbox"/> Low Select</p> <p><input type="checkbox"/> High Select</p>
<b>PERFORMANCE SPECIFICATIONS</b>		
<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>Mounting Position Effect.</b> None; corrected by AUTO-zero.</p> <p><b>Transducer Response Time.</b> 0.5 second to reach 98% of a step change.</p> <p><b>Power Consumption.</b> Standard: 18VA at 24VAC; 13VA at 24VDC; 36VA at 120VAC. With AUTO-purge Management: 54VA at 24VAC; 48VA at 24VDC; 108VA at 120VAC</p>	
<b>FUNCTIONAL SPECIFICATIONS</b>		
<p><b>Digital Outputs.</b> Dual Form C dry contacts rated for 3 Amps at 24VAC/VDC for optional Hi/Lo alarm. Dual Form A dry contacts rated for 3 amps at 24VAC/VDC for AUTO-purge activation and acknowledgment.</p> <p><b>Digital Inputs.</b> Dry contact for soft start command, AUTO-purge external start command, and switch to external setpoint command.</p> <p><b>Analog Outputs.</b> The single transmitter and controller outputs are individually configurable via jumper for 0-5VDC, 0-10VDC, or 4-20 mAADC. Two additional outputs are optionally available.</p> <p><b>Analog Inputs.</b> Dual inputs are field configurable via jumper for 0-5VDC, 0-10VDC, or 4-20mAADC. For use with optional special function and controller external setpoint.</p> <p><b>AUTO-purge Management.</b> AUTO-purge cycle is initiated via an external dry contact input, or via an internal timer with field selectable frequencies of 1 to 24 hours, in 1 hour increments. An SPDT dry contact controls the AUTO-purge System; a second dry contact provides remote purge activation acknowledgment.</p> <p><b>Controller.</b> Controller output type is P,I,1/D, user selectable forward or reverse acting. Controller setpoint is user selectable as internal or via external analog input.</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 isolated, fused, and reverse polarity protected.</p> <p><b>Span and Zero Adjustment.</b> Digital, via internally located push-buttons.</p> <p><b>Displays.</b> Standard 2 line x 20 character LCD provides one line of data display. Optional 4 line x 20 character LCD provides up to 4 lines of data display.</p> <p>LED's indicate CPU activated, AUTO-zero in progress, AUTO-zero over-ranged, AUTO-purge in progress, and auxiliary alarm "on" status.</p> <p><b>Humidity Limits.</b> 0-95% RH, non-condensing.</p> <p><b>Temperature Limits.</b> -20°F to 180°F Storage. +40°F to 140°F Operating.</p>	



AIR MONITOR  
CORPORATION