

MASS-tron II

ULTRA-LOW RANGE DIFFERENTIAL PRESSURE/ FLOW TRANSMITTER

OPTIONS																												
<input type="checkbox"/> Alarms or <input type="checkbox"/> AUTO-purge Mgmt <input type="checkbox"/> Auxiliary Output <input type="checkbox"/> Terminal Cover/Conduit Connection	Special Functions <input type="checkbox"/> % Deviation <input type="checkbox"/> Summed Flow <input type="checkbox"/> Averaged Flow <input type="checkbox"/> Differential Flow <input type="checkbox"/> Low Select <input type="checkbox"/> High Select	Power <input type="checkbox"/> 24VAC <input type="checkbox"/> 20-40VDC <input type="checkbox"/> 120VACI (via external transformer)	Certification <input type="checkbox"/> Standard <input type="checkbox"/> NIST Traceable	Network <input type="checkbox"/> None (std) <input type="checkbox"/> Modbus TCP/IP over Ethernet <input type="checkbox"/> LonWorks																								
PERFORMANCE SPECIFICATIONS																												
Accuracy. ±0.1% of Natural Span, including non-linearity, hysteresis, deadband, and non-repeatability.		Mounting Position Effect. None; corrected by AUTO-zero.																										
Stability. ±0.5% of Natural Span for six months.		Power Consumption.																										
Temperature Effect Zero. None; corrected by AUTO-zero. Span. 0.015% of Full Span/°F.		<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2"></th> <th colspan="2">Standard</th> <th colspan="2">w/AUTO-purge</th> </tr> <tr> <th>In Rush</th> <th>Hold</th> <th>In Rush</th> <th>Hold</th> </tr> </thead> <tbody> <tr> <td>24VAC</td> <td>14.4VA</td> <td>14VA</td> <td>45.6VA</td> <td>33.68VA</td> </tr> <tr> <td>24VDC</td> <td>9.6W</td> <td>9.0W</td> <td>19.92W</td> <td>19.32W</td> </tr> <tr> <td>120VAC</td> <td>19.2VA</td> <td>18.67VA</td> <td>60.8VA</td> <td>44.91VA</td> </tr> </tbody> </table>				Standard		w/AUTO-purge		In Rush	Hold	In Rush	Hold	24VAC	14.4VA	14VA	45.6VA	33.68VA	24VDC	9.6W	9.0W	19.92W	19.32W	120VAC	19.2VA	18.67VA	60.8VA	44.91VA
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Transducer Response Time. 0.5 second to reach 98% of a step change.																												
FUNCTIONAL SPECIFICATIONS																												
Digital Outputs. Dual form C dry contacts and dual Form A dry contacts rated for 3 amps at 24VAC/VDC are used for optional High/Low alarms or AUTO-purge activation & acknowledgment.		Automatic Zeroing. Accuracy. Within 0.1% of calibrated span. Frequency. Every 1 to 24 hours on 1 hour intervals.																										
Digital Inputs. Dry contact for AUTO-purge external start command.		Overpressure and Static Pressure Limit. 25 psig.																										
Analog Outputs. Four outputs are individually configurable via jumper for 0-5VDC, 0-10VDC, or 4-20mADC.		Circuit Protection. Power input is isolated, fused and reverse polarity protected.																										
Analog Inputs. Dual inputs are field configurable via jumper for 0-5VDC, 0-10VDC, or 4-20mADC. One is reserved for temperature input; the other for use with optional special function.		Span and Zero Adjustment. Digital, via internally located push-buttons.																										
AUTO-purge Management. 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. Three internal relays provide purge activation & acknowledgment.		Displays. Standard 5 line x 20 character backlit graphical LCD provides five lines of data display. LED's indicate AUTO-zero in progress, CPU activated, AUTO-zero over-ranged, AUTO-purge in progress, and auxiliary alarm "on" status.																										
Power Supply. Standard 24VAC (20-28VAC) or 24VDC (20-40VDC), with automatic selection. Optional 120VAC (100-132 VAC), via external transformer.		Temperature Compensation Selection. Push-button selection of linearized or non-linear input. Choice of thermocouple (Type E, K, J, and T) or 100 ohm platinum RTD temperature sensor type.																										
Low Pass Filtration. Response time to reach 98% of a step change is adjustable from 2.0 to 250.0 seconds.		Pressure Compensation. Absolute pressure (atmosphere or duct static), up to 60"Hg.																										
		Humidity Limits. 0-95% RH, non-condensing.																										
		Temperature Limits. -20°F to 180°F Storage. +40°F to 140°F Operating.																										

