

**SUBMITTAL SHEET**

# CAMM

## COMBUSTION AIRFLOW MANAGEMENT MODULE

<b>OPTIONS</b>	<b>Special Functions</b> <input type="checkbox"/> Summed Flow <input type="checkbox"/> Differential Flow	<b>Power</b> <input type="checkbox"/> 24VAC <input type="checkbox"/> 20-40VDC <input type="checkbox"/> 120VAC (via external transformer)	<b>Certification</b> <input type="checkbox"/> Standard <input type="checkbox"/> NIST Traceable	<b>Network</b> <input type="checkbox"/> None (std) <input type="checkbox"/> Modbus TCP/IP over Ethernet <input type="checkbox"/> LonWorks
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<b>PERFORMANCE SPECIFICATIONS</b>																									
<p><b>Accuracy.</b> ±0.1% of Natural Span, including non-linearity, hysteresis, 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></p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <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>85VA</td> <td>73VA</td> </tr> <tr> <td>24VDC</td> <td>9.6W</td> <td>9.0W</td> <td>37W</td> <td>37W</td> </tr> <tr> <td>120VAC</td> <td>19.2VA</td> <td>18.67VA</td> <td>106VA</td> <td>92VA</td> </tr> </tbody> </table>		Standard		w/AUTO-purge		In Rush	Hold	In Rush	Hold	24VAC	14.4VA	14VA	85VA	73VA	24VDC	9.6W	9.0W	37W	37W	120VAC	19.2VA	18.67VA	106VA	92VA
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<b>FUNCTIONAL SPECIFICATIONS</b>	
<p><b>Digital Outputs.</b> Two Form 'C' contacts and dual Form 'A' dry contacts rated for 3A at 24VAC/DC used for AUTO-purge activation (SV<sub>1</sub> and SV<sub>2</sub>) and acknowledgment.</p> <p><b>Digital Inputs.</b> External dry contact closure for AUTO-purge external start and purge interrupt commands.</p> <p><b>Analog Outputs.</b> Four outputs for flow, temperature, absolute pressure, and differential pressure <u>or</u> special function individually configurable via jumper for 0-5VDC, 0-10VDC, or 4-20mADC.</p> <p><b>Analog Inputs.</b> 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.</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. A Form 'A' contact controls the AUTO-purge System; a second dry contact provides remote purge activation &amp; acknowledgment.</p> <p><b>Power Supply.</b> Standard 24VAC (20-28VAC) or 24VDC (20-40VDC), with automatic selection. Optional 120VAC (100-132 VAC) via external UL listed transformer.</p> <p><b>Low Pass Filtration.</b> Response time to reach 98% of a step change is adjustable from 2.0 to 30.0 seconds.</p>	<p><b>Automatic Zeroing.</b> Accuracy. Within 0.1% of calibrated span. Frequency. Every 1 to 24 hours selectable 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>Span and Zero Adjustment.</b> Digital, via internally located push-buttons.</p> <p><b>Displays.</b> Standard 5 line x 20 character backlit graphical LCD provides five lines of data display. LED's indicate CPU activated, AUTO-zero in progress, and AUTO-purge in progress.</p> <p><b>Temperature Compensation Selection.</b> Push-button selection of linearized or nonlinear input. Choice of thermocouple (Type E, K, J, and T) or 100 ohm platinum RTD temperature sensor type.</p> <p><b>Pressure Compensation.</b> Absolute pressure (atmosphere or duct static), up to 60"Hg.</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>

