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|  | <b>INSTRUMENT DATA SHEET</b> | <b>DOCUMENT NO. 100-0108</b>  |
| <b>SAGE PRIME<br/>THERMAL MASS FLOW<br/>METER</b>                                 | <b>GAS MASS FLOW</b>         | <b>SAGE SIP SPECIFICATIONS<br/>INTEGRAL STYLE PRIME<br/>IN-LINE MASS FLOW METER</b> |

#### GENERAL INFORMATION

|                                 |   |
|---------------------------------|---|
| <b>STYLE:</b>                   | Integral In-Line Mass Flow Meter  |
| <b>SENSOR:</b>                  | Two reference grade platinum RTD clad in 316SS sheath   |
| <b>MATERIAL:</b>                | Wetted metal components: 316SS  |
| <b>POWER:</b>                   | 24VDC Standard (12VDC or 115/230VAC optional)   |
| <b>POWER DISSIPATION:</b>       | <2.5 w  |
| <b>ELECTRONICS:</b>             | Microprocessor based  |
| <b>ELECTRONICS ENCLOSURE:</b>   | Integral mount, NEMA 4 enclosure  |
| <b>DISPLAY:</b>                 | High contrast photo-emissive OLED graphical display (Flow rate, Totalizer, Temperature)   |
| <b>TURNDOWN:</b>                | 100 to 1  |
| <b>RESOLUTION:</b>              | 1000 to 1   |
| <b>LOW END SENSITIVITY:</b>     | 5 SPPM  |
| <b>FIELD CALIBRATION CHECK:</b> | Yes - Digital system allows raw signal validation (milli-watts)   |
| <b>COMMUNICATIONS:</b>          | Modbus® compliant RS485 RTU communications  |
| <b>APPROVALS:</b>               | CSA C22.2 (24 VDC); UL1604, Class I, Div 2, Grps B, C, D T4 (24VDC);<br>CE (AC Power or 24VDC) ATEX: Ex, nA IIC T4X (24VDC model only)    |
| <b>FIELD RECONFIGURABLE:</b>    | Yes - Sage ADDRESSER or Sage DONGLE   |
| <b>FLOW ACCURACY:</b>           | +/- 0.5% of Full Scale +/- 1% of reading  |
| <b>FLOW REPEATABILITY:</b>      | 0.2%  |
| <b>RESPONSE TIME:</b>           | 1 second  |
| <b>GAS TEMPERATURE RANGE:</b>   | -40° TO 200°F STD (if higher temperature needed, contact Sage)  |
| <b>GAS PRESSURE:</b>            | 500 PSIG (if higher pressure needed, contact Sage)  |
| <b>FLOW OUTPUT:</b>             | 4 to 20 mA for rate; 24VDC pulse for totalized value  |
| <b>TEMPERATURE OUTPUT:</b>      | Through Modbus® only  |
| <b>AMBIENT TEMPERATURE:</b>     | -4° F TO 150°F  |
| <b>FLOW BODY:</b>               | 316SS Schedule 40 Flow Bodies sized from 1/4" x 6" long to 4" x 12" long.<br>Male NPT ends standard (Flanges and other options available) |
| <b>RELAYS:</b>                  | N/A   |
| <b>FLOW CONDITIONING:</b>       | Flow Conditioners are built in to In-Line Style Flow Bodies from 1/2" to 4"   |

**Make the Wise Choice. Choose Sage Flow Meters.**

