



**INSTRUMENT DATA SHEET**

DOCUMENT NO. 100-0333 Rev. 2

**SAGE 300 SERIES  
THERMAL MASS FLOW  
METER**

**GAS MASS FLOW**

**SAGE 300 SERIES SPECIFICATIONS  
INTEGRAL STYLE  
INSERTION MASS FLOW METER**

**GENERAL INFORMATION**

|                               |                                                                                                |
|-------------------------------|------------------------------------------------------------------------------------------------|
| <b>STYLE:</b>                 | Integral Insertion Mass Flow Meter                                                             |
| <b>SENSOR:</b>                | Two reference grade platinum RTD clad in 316SS sheath or Hastelloy C276                        |
| <b>MATERIAL:</b>              | Wetted metal components: 316SS or Hastelloy C276                                               |
| <b>POWER:</b>                 | 24VDC Standard (90-265VAC optional)                                                            |
| <b>POWER DISSIPATION:</b>     | <2.5 W                                                                                         |
| <b>ELECTRONICS:</b>           | Microprocessor based (Hybrid-Digital)                                                          |
| <b>ELECTRONICS ENCLOSURE:</b> | Integral mount, NEMA 4 enclosure                                                               |
| <b>DISPLAY:</b>               | Flow Rate, Totalizer & Temperature (optional).                                                 |
| <b>TURNDOWN:</b>              | 100 to 1                                                                                       |
| <b>RESOLUTION:</b>            | 1000 to 1                                                                                      |
| <b>LOW END SENSITIVITY:</b>   | 5 SFPM                                                                                         |
| <b>COMMUNICATIONS:</b>        | Modbus® compliant RS485 RTU optional                                                           |
| <b>APPROVALS:</b>             | Class I, Div 2, Groups B, C, D T4 (24VDC) ANSI/ISA 12.12.01, CSA C22.2; CE (AC Power or 24VDC) |
| <b>FIELD RECONFIGURABLE:</b>  | Sage ADDRESSER or Modbus required                                                              |
| <b>FLOW ACCURACY:</b>         | +/- 0.5% of Full Scale +/- 1% of reading                                                       |
| <b>FLOW REPEATABILITY:</b>    | 0.2%                                                                                           |
| <b>RESPONSE TIME:</b>         | 1 second time constant                                                                         |
| <b>GAS TEMPERATURE RANGE:</b> | Standard -40° to 200°F (93°C), Optional to 300°F (149°C) and 450°F (232°C)                     |
| <b>GAS PRESSURE:</b>          | 500 PSIG (If higher pressure needed, contact Sage)                                             |
| <b>FLOW OUTPUT:</b>           | 4 to 20 mA for Rate                                                                            |
| <b>TOTALIZER:</b>             | 24VDC Pulse for Totalized Value                                                                |
| <b>TEMPERATURE OUTPUT:</b>    | Through Modbus® only                                                                           |
| <b>AMBIENT TEMPERATURE:</b>   | -40° to 150°F (66°C)                                                                           |
| <b>PROBE STYLE / LENGTH:</b>  | 1/2" O.D Probe & Lengths 6" to 36"                                                             |
| <b>RELAYS:</b>                | N/A                                                                                            |
| <b>FLOW CONDITIONING:</b>     | Captive Flow Conditioners available upon request with meter purchase                           |
| <b>ENCLOSURE DEPTH:</b>       | DC: 4.35" ; AC: 5.35"                                                                          |

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

