



**INSTRUMENT DATA SHEET**

DOCUMENT NO. 100-0116

**SAGE EXPLOSION PROOF THERMAL MASS FLOW METER**

**GAS MASS FLOW**

**SAGE SIE SPECIFICATIONS INTEGRAL STYLE EXPLOSION PROOF 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
<b>MATERIAL:</b>	Wetted metal components: 316SS
<b>POWER:</b>	24VDC Standard (115/230VAC optional)
<b>POWER DISSIPATION:</b>	<6 w
<b>ELECTRONICS:</b>	Microprocessor based
<b>ELECTRONICS ENCLOSURE:</b>	Integral mount, Explosion Proof, Class 1, Div 1, Groups B, C, D, NEMA 4X
<b>DISPLAY:</b>	Two line, backlit display with keypad (Flow Rate, Totalized Flow, Temperature displayed)
<b>TURNDOWN:</b>	100 to 1
<b>RESOLUTION:</b>	1000 to 1
<b>LOW END SENSITIVITY:</b>	5 SFPM
<b>FIELD CALIBRATION CHECK:</b>	Yes - Digital system allows raw signal validation (milli-watts)
<b>COMMUNICATIONS:</b>	RS232 Communication and Menuing Software (Sage VI_Terminal)
<b>APPROVALS:</b>	Insertion: CSA approved for Class I, Div 1, Groups B, C, & D. (Tested & approved to CSA C22.2 No 30 & CSA C22.2 No. 142) DC Meters have a T3C Rating. AC Powered meters, have a T2 Rating
<b>FIELD RECONFIGURABLE:</b>	Optionally available with up to four independent calibrations (Channels A-D)
<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 (via Relay contacts)
<b>TEMPERATURE OUTPUT:</b>	4 to 20 mA (if Flow Output disabled)
<b>AMBIENT TEMPERATURE:</b>	-4° F TO 150°F
<b>PROBE STYLE / LENGTH:</b>	1/2" OD Probe (3/4" optional) Lengths 6" to 36"
<b>RELAYS:</b>	One: Pulsed outputs of Totalized Flow; Alarms (Trip High/Trip Low)
<b>FLOW CONDITIONING:</b>	Captive Flow Conditioners available upon request with meter purchase

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

