



**INSTRUMENT DATA SHEET**

DOCUMENT NO. 100-0140 Rev. 6

**SAGE CLEAR  
THERMAL MASS FLOW  
METER**

**GAS MASS FLOW**

**SAGE SIA SPECIFICATIONS  
INTEGRAL STYLE CLEAR  
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>	<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 SFPM
<b>FIELD CALIBRATION CHECK:</b>	Yes - Digital system allows raw signal validation (milli-watts)
<b>COMMUNICATIONS:</b>	Optional Modbus® communications (specify MODBUS*)
<b>APPROVALS:</b>	N/A
<b>FIELD RECONFIGURABLE:</b>	Optional Reconfigurability (specify CLEARCOM*)
<b>FLOW ACCURACY:</b>	'+/- 0.5% of Full Scale +/- 1% of reading (Enhanced accuracy optionally available with limited turn-down)
<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>	N/A
<b>AMBIENT TEMPERATURE:</b>	-4° F TO 150°F
<b>PROBE STYLE / LENGTH:</b>	1/2" OD Probe, Lengths 6" to 24"
<b>RELAYS:</b>	N/A
<b>FLOW CONDITIONING:</b>	Captive Flow Conditioners available upon request with meter purchase
<b>NOTES:</b>	* ADDRESSER software required with MODBUS or CLEARCOM options

