



**INSTRUMENT DATA SHEET**

DOCUMENT NO. 100-0110 Rev. 14

**SAGE PRIME  
THERMAL MASS FLOW  
METER**

**GAS MASS FLOW**

**SAGE SRP SPECIFICATIONS  
REMOTE STYLE PRIME  
IN-LINE MASS FLOW METER**

**GENERAL INFORMATION**

<b>STYLE:</b>	Remote 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>	Remote-Style Microprocessor based (Hybrid-Digital)
<b>ELECTRONICS ENCLOSURE:</b>	Junction Box is Explosion Proof, Class I, Div 2, Groups B, C, D (no electronics)
<b>TRANSMITTER ENCLOSURE:</b>	Remote 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>	Modbus® compliant RS485 RTU or optional HART® communications
<b>APPROVALS:</b>	CSA C22.2 (24 VDC); UL1604, Class I, Div 2, Groups B, C, D T4 (24VDC); CE (AC Power or 24VDC); ATEXnA - Div 2 (24 VDC)
<b>FIELD RECONFIGURABLE:</b>	SageCom required
<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 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>FLOW BODY:</b>	316SS Schedule 40 Flow Bodies sized from 1/4" x 6" long to 4" x 12" long. Male NPT ends standard (Flanges and other options available)
<b>CABLE LENGTH:</b>	25' Standard (max length 1000')
<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"
<b>TRANSMITTER ENCL DEPTH:</b>	DC: 4.35" ; AC: 5.35"

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

