



INSTRUMENT DATA SHEET

DOCUMENT NO. 100-0108 Rev. 12

**SAGE PRIME
THERMAL MASS FLOW
METER**

GAS MASS FLOW

**SAGE SIP SPECIFICATIONS
INTEGRAL STYLE PRIME
IN-LINE MASS FLOW METER**

GENERAL INFORMATION

STYLE:	Integral In-Line Mass Flow Meter
SENSOR:	Two reference grade Platinum RTD clad in 316SS sheath
MATERIAL:	Wetted metal components: 316SS
POWER:	24VDC Standard (12VDC or 115/230VAC optional)
POWER DISSIPATION:	<2.5 W
ELECTRONICS:	Microprocessor based (Hybrid-Digital)
ELECTRONICS ENCLOSURE:	Integral mount, NEMA 4 enclosure
DISPLAY:	High contrast photo-emissive OLED graphical display (Flow Rate, Totalizer, Temperature)
TURNDOWN:	100 to 1
RESOLUTION:	1000 to 1
LOW END SENSITIVITY:	5 SFPM
FIELD CALIBRATION CHECK:	Yes - Digital system allows raw signal validation (milli-watts)
COMMUNICATIONS:	Modbus® compliant RS485 RTU or optional HART® communications
APPROVALS:	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)
FIELD RECONFIGURABLE:	SageCom required
FLOW ACCURACY:	+/- 0.5% of Full Scale +/- 1% of reading (Enhanced accuracy optionally available with limited turn-down)
FLOW REPEATABILITY:	0.2%
RESPONSE TIME:	1 second time constant
GAS TEMPERATURE RANGE:	Standard -40° to 200°F (93°C), Optional to 300°F (149°C) and 450°F (232°C)
GAS PRESSURE:	500 PSIG (If higher pressure needed, contact Sage)
FLOW OUTPUT:	4 to 20 mA for Rate
TOTALIZER:	24VDC pulse for Totalized value
TEMPERATURE OUTPUT:	Through Modbus® only
AMBIENT TEMPERATURE:	-40° to 150°F (66°C)
FLOW BODY:	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)
RELAYS:	N/A
FLOW CONDITIONING:	Flow Conditioners are built in to In-Line Style Flow Bodies from 1/2" to 4"
ENCLOSURE DEPTH:	DC: 4.35" ; AC: 5.35"

Make the Wise Choice. Choose Sage Flow Meters.

