



**INSTRUMENT DATA SHEET**

DOCUMENT NO. 100-0340 Rev. 2

**SAGE PARAMOUNT  
THERMAL MASS FLOW  
METER**

**GAS MASS FLOW**

**SAGE 402 SPECIFICATIONS  
REMOTE STYLE PARAMOUNT  
INSERTION MASS FLOW METER**

**GENERAL INFORMATION**

<b>STYLE:</b>	Remote Insertion Mass Flow Meter
<b>SENSOR:</b>	Platinum RTD clad in 316SS sheath
<b>MATERIAL:</b>	Wetted metal components: 316SS
<b>POWER:</b>	24VDC Standard (115/230VAC optional) 2.5 W max power dissipation
<b>SOFTWARE:</b>	SageCom Validation and Reconfiguration Software supplied at no charge
<b>ELECTRONICS:</b>	Remote-Style microprocessor based (Digital)
<b>PROBE ENCLOSURE:</b>	Junction Box is explosion proof, Class 1, Group B, C, D, NEMA 4X (no electronics)
<b>TRANSMITTER ENCLOSURE:</b>	Remote mount, dual-sided explosion proof, NEMA 4X enclosure (25 ft of cable included)
<b>DISPLAY:</b>	High contrast photo-emissive OLED graphical display (Flow Rate, Total, Temperature, mW)
<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 (mW)
<b>APPROVALS:</b>	CSA C22.2 (24 VDC); UL1604, Class I, Div 2, Groups B, C, D T4 (24VDC); CE (AC Power or 24VDC); ATEX eX nA IIC T4 X; Div 1 (Pending - March 2020)
<b>COMMUNICATIONS:</b>	Modbus® compliant RS485 RTU (opt'l BACnet or HART Communications)
<b>FIELD RECONFIGURABLE:</b>	SageCom (included)
<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® or BACnet
<b>PROBE STYLE/ LENGTH:</b>	½" OD Probe (¾" optional) Lengths 6" to 36" (up to 48" with ¾" Probe)
<b>AMBIENT TEMPERATURE:</b>	-40° to 150°F (66°C)
<b>2<sup>ND</sup> COMMUNICATION CHANNEL:</b>	Separate mini USB connector and cable
<b>FLOW CONDITIONING:</b>	Captive Flow Conditioners available upon request with meter
<b>ENCLOSURE DEPTH:</b>	8.00"

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

Junction Box and Transmitter are Explosion Proof, Class 1, Div. 1 & 2, Group B, C, D (No Electronics)

