



INSTRUMENT DATA SHEET

DOCUMENT NO. 100-0340 Rev. 4

**SAGE PARAMOUNT
THERMAL MASS FLOW
METER**

GAS MASS FLOW

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

GENERAL INFORMATION

STYLE:	Remote Insertion Mass Flow Meter
SENSOR:	Platinum RTD clad in 316SS sheath
MATERIAL:	Wetted metal components: 316SS
POWER:	24VDC Standard (115/230VAC optional) 2.5 W max power dissipation
SOFTWARE:	SageCom Validation and Reconfiguration Software supplied at no charge
ELECTRONICS:	Remote-Style microprocessor based (Digital)
PROBE ENCLOSURE:	Junction Box is explosion proof, Class 1, Group B, C, D, NEMA 4X (no electronics)
TRANSMITTER ENCLOSURE:	Remote mount, dual-sided explosion proof, NEMA 4X enclosure (25 ft of cable included)
DISPLAY:	High contrast photo-emissive OLED graphical display (Flow Rate, Total, Temperature, mW)
TURNDOWN:	100 to 1
RESOLUTION:	1000 to 1
LOW END SENSITIVITY:	5 SFPM
FIELD CALIBRATION CHECK:	Yes - Digital system allows raw signal validation (mW)
APPROVALS (Div 2):	CSA C22.2 (24 VDC); ULI604, Class I, Div 2, Groups B, C, D T4 (24VDC);
(24 VDC only)	CE (AC Power or 24VDC); ATEX eX nA IIC T4
APPROVALS (Div 1):	Class I, Div 1, Groups B, C, D, T6 (24 VDC as well as 115 VAC/230 VAC)
COMMUNICATIONS:	Modbus® compliant RS485 RTU (opt'l BACnet or HART Communications)
FIELD RECONFIGURABLE:	SageCom (included)
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
PROBE STYLE/ LENGTH:	½" OD Probe (¾" optional) Lengths 6" to 36" (up to 48" with ¾" Probe)
TEMPERATURE OUTPUT:	Through Modbus® or BACnet
AMBIENT TEMPERATURE:	-40° to 150°F (66°C)
2ND COMMUNICATION CHANNEL:	Separate mini USB connector and cable
FLOW CONDITIONING:	Captive Flow Conditioners available upon request with meter
ENCLOSURE DEPTH:	8.00"

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

