



INSTRUMENT DATA SHEET

DOCUMENT NO. 100-0335 Rev. 3

**SAGE 300 SERIES
THERMAL MASS FLOW
METER**

GAS MASS FLOW

**SAGE 300 SERIES SPECIFICATIONS
REMOTE STYLE
INSERTION MASS FLOW METER**

GENERAL INFORMATION

STYLE:	Remote Insertion Mass Flow Meter
SENSOR:	Two reference grade platinum RTD clad in 316SS sheath
MATERIAL:	Wetted metal components: 316SS
POWER:	24VDC Standard (90-265VAC optional)
POWER DISSIPATION:	<2.5 W
ELECTRONICS:	Microprocessor based (Hybrid-Digital)
PROBE ENCLOSURE:	Junction Box is Explosion Proof, Class I, Div. 1, Groups B, C, D (no electronics)
TRANSMITTER ENCLOSURE:	Remote mount, NEMA 4 enclosure
DISPLAY:	Flow Rate, Totalizer & Temperature. Also available without display.
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 optional (specify MODBUS)
APPROVALS:	CSA C22.2 (24 VDC); ANSI/ISA 12.12.01, Class 1, Div 2, Groups B, C, D T4 (24VDC); CE (AC Power or 24VDC)
FIELD RECONFIGURABLE:	Sage ADDRESSER or Modbus required
FLOW ACCURACY:	+/- 0.5% of Full Scale +/- 1% of reading
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°F to 150°F (66°C)
PROBE STYLE / LENGTH:	1/2" OD Probe (3/4" optional) Lengths 6" to 36"
RELAYS:	N/A
CABLE LENGTH:	25' Standard (max length 1000') lead length compensation is standard
FLOW CONDITIONING:	Captive Flow Conditioners available upon request with meter purchase
TRANSMITTER ENCL DEPTH:	DC: 4.35" ; AC: 5.35"

Make the Wise Choice. Choose Sage Flow Meters.

