
	INSTRUMENT DATA SHEET	DOCUMENT NO. 100-0187 Rev. R10
SAGE RIO THERMAL MASS FLOW METER	GAS MASS FLOW	SAGE SIX SPECIFICATIONS INTEGRAL STYLE ATEX INSERTION MASS FLOW METER

GENERAL INFORMATION

STYLE:	Insertion Mass Flow Meter
SENSOR:	Two reference grade platinum RTD clad in 316SS sheath
MATERIAL:	Wetted metal components: 316SS
POWER:	24VDC Standard (115/230VAC optional)
POWER DISSIPATION:	<2.5 w (for 24VDC Models)
ELECTRONICS:	Microprocessor based
ELECTRONICS ENCLOSURE:	Integral mount, Explosion Proof, Class I, Groups B, C, D, Class II, Groups E,F,G, Class III, Type 4X - Class 1, Zone 1, Group IIB+H2, IP66
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 in milliwatts (In-Situ Calibration Check)
COMMUNICATIONS:	Modbus® compliant RS485 RTU communications
APPROVALS:	ATEX Zone I  II 2 G Ex d IIB+H2 T6 Gb Note: T6 Rating is suitable for gases with ignition temperatures as low as 185°F (85°C)
FIELD RECONFIGURABLE:	Yes - Sage Addresser or Sage Dongle
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
GAS TEMPERATURE RANGE:	-40° to 200°F (93°C) Standard (for higher temperature options, contact Sage)
GAS PRESSURE:	500 PSIG (if higher pressure needed, contact Sage)
FLOW OUTPUT:	4 to 20 mA for Rate; 24VDC pulse for Totalized value
TEMPERATURE OUTPUT:	Through Modbus® only
AMBIENT TEMPERATURE:	-40°F (-40°C) to 122°F (50°C) for ATEX Rating
PROBE STYLE / LENGTH:	1/2" OD Probe Lengths 6" to 36"
RELAYS:	N/A
FLOW CONDITIONING:	Captive Flow Conditioners available upon request with meter purchase
NOTES:	The unit is not provided with an ATEX approved cord grip
ENCLOSURE DEPTH:	6.78"

