
	INSTRUMENT DATA SHEET	DOCUMENT NO. 100-0187 Rev. R13
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 (1.4401) sheath
MATERIAL:	Wetted metal components: 316SS (1.4401)
POWER:	24VDC Standard (115/230VAC optional)
POWER DISSIPATION:	<2.5 w (for 24VDC Models)
ELECTRONICS:	Microprocessor based
ELECTRONICS ENCLOSURE:	Zone 1, AEX d IIC, Ex d, IIC, IEC, 60529, IP66 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:	25 mm/sec 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 85°C (185°F)
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°C to 93°C (200°F) Standard (for higher temperature options, contact Sage)
GAS PRESSURE:	34 Bar (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 to 50°C (122°F) for ATEX Rating
PROBE STYLE / LENGTH:	12.7mm (1/2") OD Probe Lengths 152mm (6") to 914mm (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:	172mm (6.78")

