
	INSTRUMENT DATA SHEET	DOCUMENT NO. 100-0188 Rev. 18
SAGE RIO THERMAL MASS FLOW METER	GAS MASS FLOW	SAGE SIX SPECIFICATIONS INTEGRAL STYLE ATEX IN-LINE MASS FLOW METER

GENERAL INFORMATION

STYLE:	Integral In-Line Mass Flow Meter
SENSOR:	Two reference grade Platinum RTD clad in 316SS (1.4401) sheath
MATERIAL:	Wetted metal components: 316SS
POWER:	24VDC Standard (115/230VAC optional)
POWER DISSIPATION:	<2.5 W (for 24VDC Models)
ELECTRONICS:	Microprocessor based (Hybrid-Digital)
ELECTRONICS ENCLOSURE:	Zone 1, Group IIB+H2, IP66
	Class III, Type 4X - Class 1, Zone 1, Groups 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 or optional HART® 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) CSA: Can/CSA C22.2 UL: UL 61010-1 3rd edition
FIELD RECONFIGURABLE:	SageCom and Modbus required
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:	34 Bar (500 PSIG) (If higher pressure needed, contact Sage)
FLOW OUTPUT:	4 to 20 mA for Rate
TOTALIZER:	24VDC pulse for Totalizer value
TEMPERATURE:	On Display/Output with Modbus®
AMBIENT TEMPERATURE:	-40° to 122°F (50°C) for ATEX Rating
FLOW BODY:	316SS (1.4401) Schedule 40 Flow Bodies sized from 6.4mm (1/4") to 100mm (4"). Male NPT ends standard (Flanges and other options available)
FLOW CONDITIONING:	Flow Conditioners are built in to In-Line Style Flow Bodies from 13mm (1/2") to 100mm (4")
NOTES:	The unit is not provided with an ATEX approved cord grip

