Sierra Instruments



Litre Meter Ltd UK T: +44 (0)1296 670200 F: +44 (0)1296 670999 E: sales@litremeter.com

Mass Flow Meters and Controllers

	Description	Accuracy Flow range	Gas & Max. Pressures	Input Power	Output Signals	Features
820 Top-Trak®	Low-cost gas mass flow meter with tiltable digital readout; nylon or aluminium construction.	Accuracy: ±1.5% of full scale Flow Range: Model 822/824: 0-10 sccm to 0-50 slpm Model 826/827: 0-75 slpm to 0-175 slpm	Gas: Air and non corrosive, non reactive gases Max. Pressure 150 psig (10 barg)	12 to 18 VDC, 24 VDC (optional)	0-5 VDC, 4-20 mA	Low cost nylon body. Blind meters and controllers available.
820-S Top-Trak*	Low-cost gas mass flow meter with tiltable digital readout; stainless steel construction.	Accuracy: ±1.5% of full scale ±1% of full scale (optional) Flow Range: 0-10 sccm to 0-500 slpm	Gas: All clean gases including corrosives and reactives. Max. Pressure: 500 psig (34 barg)	12 to 18 VDC, 24 VDC (optional)	0-5 VDC, 4-20 mA	Low cost stainless steel body. Blind meters and controllers available.
830/840 Side-Trak*	High performance gas mass flow meters and controllers; stainless steel construction.	Accuracy: ±1% of full scale Flow Range: 0-10 sccm to 5600 slpm	Gas: All clean gases including corrosives and reactives. Max. Pressure: 500 psig (34 barg)	± 15 VDC	0-5 VDC, 4-20 mA	High accuracy. High capacity / flow rate. Blind meters and controllers available.
100 Series Smart-Trak*	Digital high performance gas mass flow meters and controllers; multi-gas capability; stainless steel construction.	Accuracy: ±1% of full scale ±0.7% of reading plus 0.3% of full scale (optional) Flow Range: 0-4 sccm to 0-1000 slpm	Gas: All clean gases including corrosives and reactives. Max. Pressure: 500 psig (34 barg) Dial-A-Gas: 10 pre-programmed gases, user selectable	24 VDC, 12 VDC (optional)	RS-232, 0-5 VDC, 0-10 VDC 1-5 VDC, 4-20 mA	Pilot module for function control. Dial-A-Gas ® technology. Fast response control valve. Digital.

Multivariable Vortex Mass Flowmeters

	Description	Accuracy	Gas & Max. Pressures	Input Power	Output Signals	Features
		Flow range				
	Insertion & In-Line Multivariable	Mass Flow (liquids): ± 1.0% of	Any gas, liquid or steam (240 cST is	9-36 VDC, 500 mA	4-20 mA three simultaneous	30:1 Rangeability
	Mass Flow Meters; Hazardous Area	reading; Mass Flow (gases): ±1.5%	ideal for steam custody transfer)	85-240 VAC, 50/60 Hz,	signals	Reduced Sensitivity to Pipeline
	Approvals: FM, CSA, & CE, Smart	of reading; Temperature: ±1 0°C;	Max. Pressure: 1500 psia (100 Bara)	25 Watts (optional)	Pulse Output	vibration 0.2% of mass flow rate
1.5	Electronics; Insertion probe lengths	Pressure ±0.4% of full scale;	Max.Temperature: 400°C		HART RS-485	repeatability.
A A A	2" to 72"; In-Line flow body sizes	Flow Range: up to 67000 scfm				Steam custody transfer model
and the second	from 1/4' to 8"	(air) up to 330000 lb./hr. (saturated				available. AGA-8 Algorithms for
0/241 Innova-Mass®		steam)				monitoring natural gas.

240/

Smart Industrial Thermal Mass Flowmeters

	Description	Accuracy Flow range	Gas & Max. Pressures	Input Power	Output Signals	Features
620S Fast-Flo™	Fast Response (200 millisecond) Insertion mass flow meter; Smart Electronics; probe lengths 3.7" to 24"; NEMA 4X (IP65)	+/-1% of full scale & 0.2% repeatability Flow range up to 20000 sfpm	Most non-combustible, non- corrosive gases		0-5 VDC 0-10 VDC 4-20 mA	Field Validation Low pressure drop Alarms Totaliser, Low-flow cut off Fast response
640S Steel-Mass™ 780S Flat-Trak™®	Insertion & In-Line mass flow meters; NEMA 4X and Hazardous Area Approvals: FM, ATEX, CSA, EEX, PED, CE, Cenelec; Smart electronics; Insertion probe lengths 6" to 36" In-Line flow body sizes from 1/4" to 8"	+/- 2% of reading from 10% to 100% of calibrated range & 0.5% of full scale below 10%; 0.2% repeatability Flow range up to 20000 sfpm	Most gases compatible with 316 L stainless steel		0-5 VDC 0-10 VDC 4-20 mA Pulse Modbus FFB Profibus RS232	Field Validation Low pressure drop Alarms and Totaliser Low-flow cut off Robust Built in flow conditioners provide compact installation
780S UHP™	Ultra-High-Purity In-Line mass flow meter; NEMA 4X and Hazardous Area, Approvals: FM, ATEX, CSA, EEx, PED, CE, Cenelec; Smart electronics; flow body sizes from 3/8" to 6".	+/- 2% of reading from 10% to 100% of calibrated range & 0.5% of full scale below 10%; 0.2% repeatability Flow range up to 20000 sfpm	Most gases compatible with 316 L stainless steel	18-30 VDC 100 to 240 VAC, 50/60 Hz (optional)	0-5 VDC 0-10 VDC 4-20 mA Pulse Modbus FFB Profibus RS232	Field Validation low pressure drop, Alarms, Totaliser, low-flow cut off, 7-10 Ra or 20-25 Ra finish

Portable Ultrasonic Flow Meters

	Description	Accuracy Flow range	Gas & Max. Pressures	Input Power	Output Signals	Features
210 Innova-Sonic™	Fully field portable ultrasonic system complete with spare battery pack, non-invasive clamp-on transducers, mounting hardware and a unique PalmOne® Personal Digital Assistant (PDA) interface for a totally self-contained measurement package.	±1.0% of reading 0 to ±40 ft/s (0 to ±12 m/s)	Liquids - non-intrusive so not subject to liquid type or pressure. Pipe Size: 25mm to 5000mm			PalmOne® 256 MB Tungsten™ T5 PDA with Bluetooth wireless facility. Battery power supply with recharge port and spare battery as standard.
205 Innova-Sonic TM	Ultrasonic flowmeter system incorporating digital signal processing. Innova-Sonic offers a low power consumption, clear display and user friendly menu selection.	±1.0% of reading 0 to ±40 ft/s (0 to ±12 m/s)	Liquids - non-intrusive so not subject to liquid type or pressure. Pipe Size: 25mm to 5000mm	10 to 36 VDC		Wall mounted, panel mounted or energy meter versions available.

