

Mass Flow Meters and Controllers

	Description	Accuracy & Flow Range	Gases & Max. Pressures	Input Power	Output Signals
 <p>100 Series Smart-Trak®</p>	Digital high performance gas mass flow meters and controllers; multi-gas capability; stainless steel construction; CE approved	Accuracy: ± 1% of full scale ± 0.7% of reading plus 0.3% of full scale (optional) Flow Range: 0 - 10 sccm to 0 - 50 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
 <p>810 Mass-Trak®</p>	Low-cost gas mass flow controller with digital readout; nylon construction; CE approved	Accuracy: ± 1.5% of full scale Flow Range: 0 - 10 sccm to 0 - 50 slpm	Gas: Air and non-corrosive, non-reactive gases Max. Pressure: 150 psig (10 barg)	24 VDC ±10%	0 - 5 VDC 0 - 10 VDC 4 - 20 mA
 <p>820 Top-Trak®</p>	Low-cost gas mass flow meter with tiltable digital readout; nylon or aluminum construction; CE approved	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
 <p>820-S Top-Trak®</p>	Low-cost gas mass flow meter for toxic and corrosive gases with tiltable digital readout; stainless steel construction; CE approved	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
 <p>830/840 Side-Trak®</p>	Analog high performance gas mass flow meters and controllers; stainless steel construction; CE approved	Accuracy: ± 1% of full scale Flow Range: 0 - 10 sccm to 0 - 5600 slpm	Gas: All clean gases including corrosives and reactives. Max. Pressure: 500 psig (34 barg)	± 15 VDC	0 - 5 VDC 4 - 20 mA

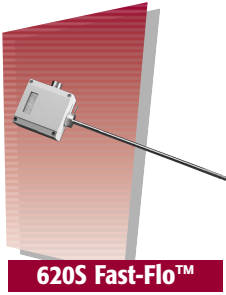
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Get more detailed information online at: www.sierrainstruments.com
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Smart Industrial Thermal Mass Flowmeters



Description	Accuracy & Flow Range	Gases	Input Power	Output Signals	Features
Low cost, high performance insertion and inline mass flow meters; Flow body sizes from 1/4" to 5" Insertion probe lengths 4" - 24", Fast Response (200 millisecond) NEMA 2, enclosure	±1% of full scale +0.5% reading, +0.2% of full scale repeatability; Flow range up to 20000 sfp _m	Inert gases and CH ₄	15 VDC 24 VDC	0 - 5 VDC 4 - 20 mA	Available in a multitude of configurations



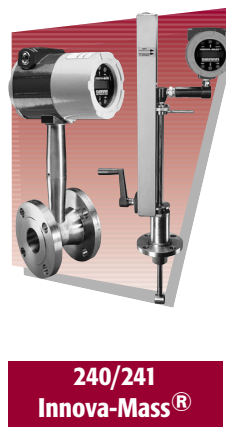
Fast Response (200 millisecond) Insertion mass flow meter; Smart Electronics; probe lengths 3.7" to 24"; NEMA 4X	±1% of Full Scale & 0.2% repeatability up to 20000 sfp _m	Most non-combustible, non-corrosive gases	18-30 VDC	0 - 5 VDC 4 - 20 mA	Field Validate, low pressure drop, Alarms, Totalizer, low-flow cutoff
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Insertion & In-Line mass flow meters; NEMA 4X and Hazardous Area Approvals: FM, 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 sfp _m	Most gases compatible with 316 L stainless steel	8-30 VDC 100 to 240 VAC , 50/60 Hz (optional)	0 - 5 VDC 4 - 20 mA	Field Validate, low pressure drop, Alarms, Totalizer, low-flow cutoff
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Multivariable Vortex Mass Flowmeters

Dedicated website:
www.innovamass.com



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



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