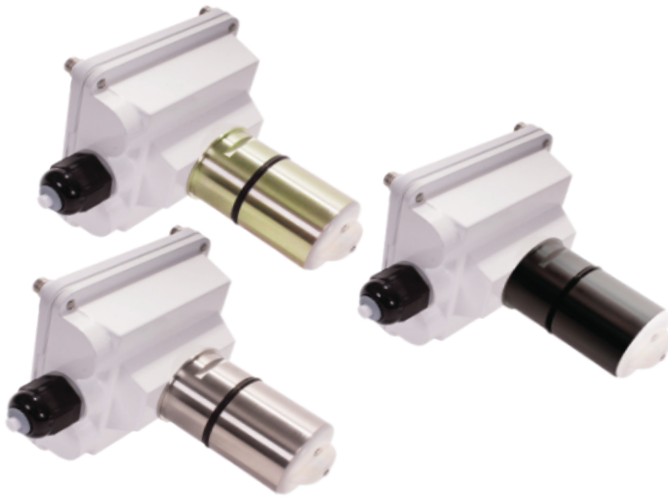


EX800-SERIES

INSERTION ELECTROMAGNETIC FLOW SENSOR



APPLICATIONS

Conductive fluids

Small pipe applications
(1"-12")

Industrial processes

Chemical metering pumps

Fertigation

Features

- No moving parts
- Economical
- Durable
- Easy to install
- Easy to maintain

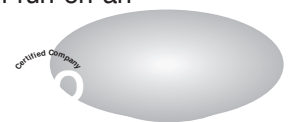
EX800-Series insertion electromagnetic flowmeters are designed for use with conductive liquids in 1 to 12" pipe. A choice of materials (stainless steel, brass, and PVC) allows the meter to adapt to a range of temperature, pressure, and corrosive environments.

The EX800 is highly suitable for difficult applications with changing viscosities and pulsating flows, such as air-driven diaphragm pumps. With no moving parts, these meters can be used in "dirty water" applications where debris would foul a mechanical meter. Like all magmeters, when used in chemical injection applications, these meters should be installed upstream of the chemical line (or far enough downstream to allow complete mixing of fluids before the meter).

Designed for modularity and versatility, the EX800-Series has a current-sinking pulse output that can be combined with the appropriate transmitter or indicator for the application. For basic rate/total and pulse output, the FT430 is best. For analog output and display of rate and total, the FT440 can be used. Blind analog output is provided by the AO55. The PD10 can be used to divide the pulse for pacing chemical metering pumps. Electronic modules can be wall- or meter- mounted. (Note: PD10 available only as wall-mounted unit.) If the EX800 meter is used with a programmable controller, the output signal can be fed direct, with no other conditioning required.

EX800-Series fixed depth insertion meters require special fittings. Factory installation in the fitting ensures correct depth placement in the pipe. The EX800-Series meter can be ordered in a full power model when a source of electricity is available, or in a low power model that can run on an external battery with solar panel.

Reverse flow output and immersibility are optional.



Specifications*

Pipe Size	1" to 12"	
Power	Full Power: 12 - 24 Vdc, 250mA	Low Power: 12 - 24 Vdc, 40mA average with 250mA peaks
Materials	Housing	Powder-coated cast aluminum
	Sensor Body	316 Stainless Steel, Brass, or PVC
	O-ring	EPDM(Viton® optional)
	Electrodes	Hastelloy
	Electrode Cap	PVDF(Kynar®)
Maximum Pressure	Brass/Stainless Steel	PVC (See Pressure vs. Temp. Chart)
	200 psi (14 bar)	150 psi (10 bar) @ 75° F (24° C)
Temperature	Ambient	0° to 160° F (-17° to 72° C)
	Fluid	32° to 200° F (0° to 93° C)
Minimum Conductivity	20 microSiemens/cm	
Flow Velocity	0.28 to 20 ft/sec (0.08 - 6.09 m/sec)	
Accuracy	± 1% of full scale	
Output	Square wave pulse, opto-isolated, 500 Hz @ 20 ft/sec	
Empty Pipe Detection	Software, defaults to zero flow	
Cable	Standard 18' (6m), #22 shielded twisted pair, 4-conn. Max. cable run at 24 Vdc = 1000' (300m); at 12 Vdc = 500' (150m). For other circumstances, contact the factory.	
Environmental	Seemeter mounted electronic specification for rating.	

*Specifications subject to change • Please consult our website for current data (www.seametrics.com).
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Flow Range

Nominal Pipe Size	1"	1½"	2"	3"	4"	6"	8"	10"	12"
Min GPM	.69	1.5	2.7	6.2	11	25	43	68	99
Min LPM	2.6	5.6	10.2	23.4	41	94	162	257	374
Max GPM	49	110	196	440	783	1760	3130	4900	7050
Max LPM	185	416	741	1665	2963	6662	11848	18548	26687

How to Order

Sensor Only	Description	Size	Sensor Material	Options
	Externally powered (12 - 24Vdc) sensor only.	1" - 3" = EX810 4" - 10" = EX820 12" = EX830	Brass = B 316 Stainless Steel = S PVC = P	ReverseFlow Output = -15 *Immersible = -40 Low Power Option = -50 Viton® O-Ring = -125

Dimensions

