



# ELECTROMAGNETIC INSERTION FLOW SENSOR

Model Number EX80 Series

## FEATURES

The EX80 series is an insertion electromagnetic flow meter for use with conductive liquids. With no moving parts, it is highly suitable for corrosive environments and for difficult applications such as those involving changing viscosities and pulsating flows. It is particularly recommended for metering the output of air-driven diaphragm pumps. Designed for modularity and versatility, the EX81 has a current-sinking pulse output, which can be combined with the appropriate transmitter or indicator depending on the application. If the EX81 is being used with a programmable controller, the output signal can be fed direct with no other conditioning required. The EX81 requires a special fitting, since it is not depth-adjustable as are the EX100/200 series meters. Installation in the fitting ensures correct depth placement in the pipe. Fittings and sensors are available in PVC, brass, and stainless steel.



Specifications	
Pipe Size	EX81: 1" – 3" EX82: 4" – 8"
Power	12 - 24 Vdc, 250 mA
Flow Range	0.2 – 20 ft/sec (.06 - 6.09 m/sec)
Temperature	PVC 130°F (55°C) Brass, SS 200° F (93° C)
Pressure	200 psi (13.8 bar)
Minimum Conductivity	20 micro siemens/cm
Materials	Mechanical 316 SS/Brass Electrode plate PVDF Electrodes Carbon Graphite Housing Cast powder-coated aluminum
O-Rings	EPDM
Calibration Accuracy	1% of full scale
Output	Square wave pulse, Opto isolated, 500 Hz @ 20 ft/sec
Bi-Directional	Direction output, Opto isolated
Empty Pipe Detection	Software, defaults to zero flow

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Pipe Size	Flow Range (GPM)	
	Min.	Max.
1"	.54	54
1.5"	1.3	127
2"	2	209
3"	4.5	461
4"	8	794
6"	18	1800
8"	31	1320

	Tee	Saddle	Weld	Braze	Sweat Tee
Bronze	1" - 4"	3" - 4"	x	3" - 8"	1" - 4"
PVC	1" - 2"	3" - 8"	x	x	x
Polypro	x	3" - 8"	x	x	x
Stainless Steel	1" - 2"	x	3" - 8"	x	x
Carbon Steel	1" - 2"	x	3" - 8"	x	x
Ductile Iron	x	3" - 8"	x	x	x

