



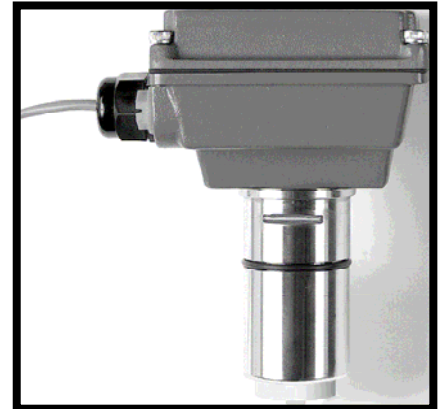
ELECTROMAGNETIC INSERTION FLOW METER

630-0700-XXX

ELECTROMAGNETIC INSERTION FLOW METER

EX80-Series insertion electromagnetic flow meters are designed for use with conductive liquids in 1 to 10" 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 EX80 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" 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 EX80-Series has a current-sinking pulse output that can be combined with the appropriate transmitter or indicator for the application. For analog output and display of rate and total, an FT420 can be used. When using the Flow Meter (without display) with Automata's MINI Field Station, a FLOW-COMP (629-0300-XXX) is required for a signal conversion from a frequency signal to an analog output as well as a pulse output for total flow. If the Flow Meter Display is needed and connected to a MINI Field Station, then a Flow Display Harness (341-6100-000) is required. Modules can be wall- or meter- mounted. EX80-Series fixed depth insertion meters require special fittings. Factory installation in the fitting ensures correct depth placement in the pipe. The EX80-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	EX81 (630-0700-010): 1" – 3" EX82 (630-0700-000): 4" – 8"
Power	Full Power: 12 - 24 Vdc, 250 mA Low Power: 12-24 Vdc, 40mA average with 250mA peaks
Flow Rate	0.28 – 20 ft/sec (0.08 - 6.09 m/sec)
Temperature	Ambient Temp: 0°- 160° F (-17° to 72° C) Fluid Temp: 32°- 200° F (0° to 93° C)
Pressure	200 psi (13.8 bar)
Minimum Conductivity	20 micro siemens/cm
Materials	Mechanical: 316 SS/Brass Electrodes: Hastelloy Electrode Cap: PVDF (Kynar) Housing: Cast powder-coated aluminum
Calibration Accuracy	+/-1% of full scale
Output	Square wave pulse, opto isolated, 550 Hz @ 20 ft/sec
Empty Pipe Detection	Software, defaults to zero flow

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Pipe Size	Flow Range (GPM)	
	Min.	Max.
1"	.73	51
1.5"	1.73	123
2"	2.87	205
3"	6.34	452
4"	11	783
6"	25	1780
8"	43	3087
10"	68	4871

	Tee	Saddle	Weld/Braze	Sweat Tee
Bronze	1" - 4"	3" - 4"	3-10"	1" - 4"
Stainless Steel	1" - 2"	x	3" - 10"	x
Carbon Steel	1" - 2"	x	3" - 10"	x
Ductile Iron	x	3" - 10"	x	x

