

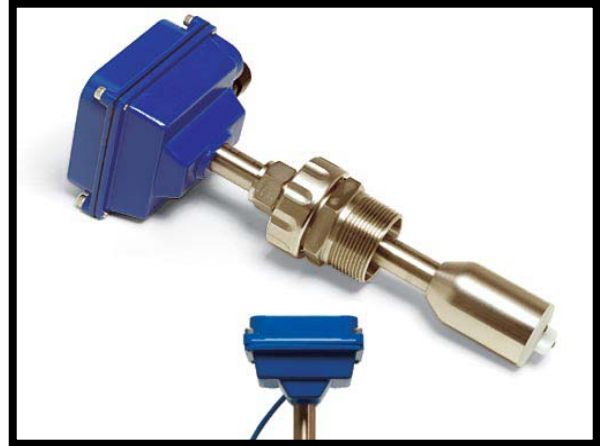


ELECTROMAGNETIC INSERTION FLOW METER

630-0700-XXX

ELECTROMAGNETIC INSERTION FLOW METER

Due to the lack of moving parts, the EX100/200-Series insertion flow meter is a reliable electromagnetic flow meter. Brass and stainless steel models withstand a variety of temperature, pressure, and chemical conditions. The EX-Series has no rotor to stop turning in dirty water and there are no bearings to wear out. 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). A rapidly reversing magnetic field is produced in the lower housing. As the fluid moves through this field, a voltage is generated that is measured and translated into a frequency signal proportional to flow rate. 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. The adapter fitting of the EX sensor is standard male NPT, and can be directly threaded into ordinary saddles or threaded weld fittings.



Specifications	
Pipe Size	EX101 (630-0700-015): 3" – 10" EX201 (630-0700-030): 10" – 48"
Power	Full Power: 12 - 24 Vdc, 250 mA Low Power: 12 - 24 Vdc, 40mA average with 250mA peaks
Flow Range	0.28 – 20 ft/sec (0.08 - 6.09 m/sec)
Installation	
Fitting Size	1-1/2" Male NPT
Temperature	Ambient 0°– 160°F (-17 to 72°C) Fluid 32°– 200° F (0° - 93° C)
Pressure	200 psi (13.8 bar)
Minimum Conductivity	20 micro siemens/cm
Materials	Shaft/Fitting: 316 SS/Brass Electrode Cap: PVDF Electrodes: Hastelloy Housing: Cast powder-coated aluminum
Calibration Accuracy	+/-1% of full scale
Output	Square wave pulse, Opto isolated, 550 Hz @ 20 ft/sec 6mA max, 30Vdc forward flow standard: reverse flow optional
Empty Pipe Detection	Software, defaults to zero flow
Reverse flow output and immersibility are optional.	

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Flow Range (GPM)		
Pipe Size	Min. Flow	Max Flow
3	6	440
4	11	783
6	25	1,762
8	44	3,133
10	69	4,895
12	99	7,050
14	134	9,596
16	175	12,533
18	222	15,863
20	274	19,584
24	395	28,200
30	617	44,064
36	888	63,452
48	1,580	112,804

