



ELECTROMAGNETIC INSERTION FLOW SENSOR

Model Number EX100/200

FEATURES

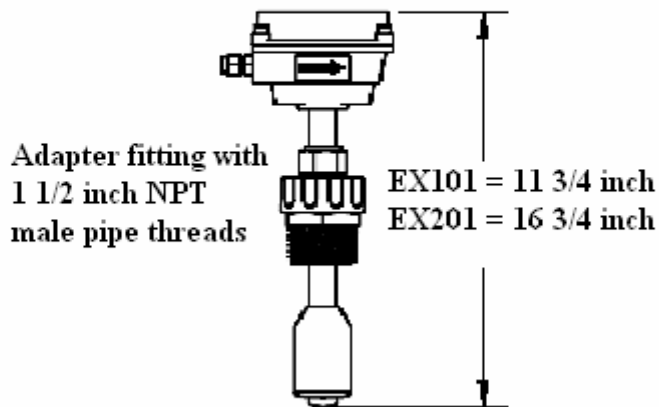
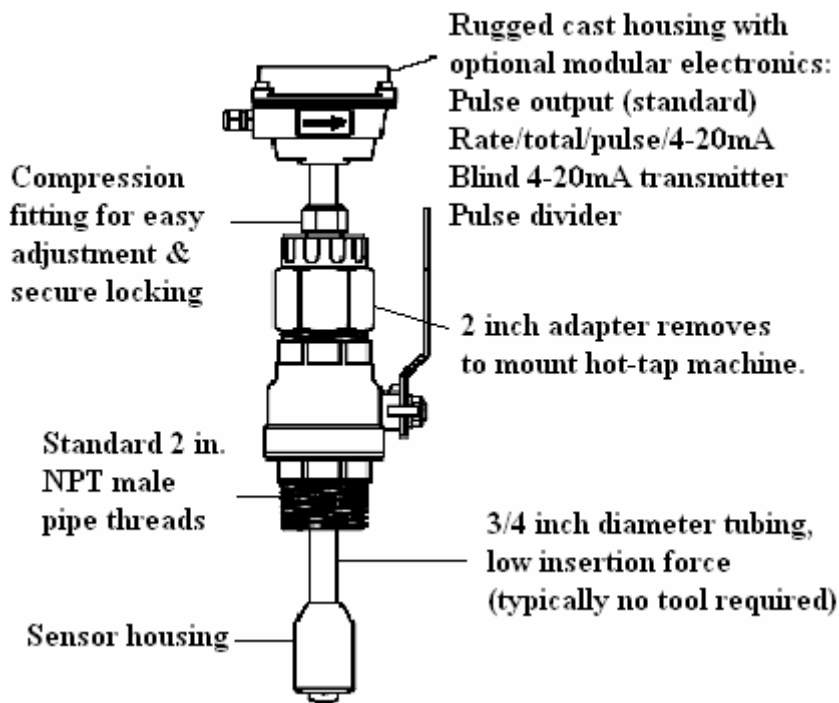
The complete lack of moving parts of this insertion flow sensor is the source of its reliability. There is no rotor to stop turning in dirty water and there are no bearings to wear out. A rapidly reversing magnetic field is produced in the lower housing, and as the fluid moves through this field a voltage is generated. This tiny voltage is measured and translated into a frequency signal which is proportional to flow rate. This square wave signal can be sent directly to a PLC or other control, or can be converted using any of the SeaMetrics family of indicators and converters. A modular system of electronics can be attached directly to the flow sensor, or remotely mounted. The FT420 provides full indication of rate and total, plus 4-20 mA output. The AO55 provides blind 4-20 mA output, the PD10 divides the pulse frequency, and the FS30 can be used for a precise setpoint flow switch. The installation 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: 2" – 10" EX201: 10" – 48"
Power	12 - 24 Vdc, 250 mA
Flow Range	0.2 – 20 ft/sec (.06 - 6.09 m/sec)
Installation	
Fitting Size	EX101, 201 = 1-1/2" MNPT E
Temperature	Ambient 0°– 180°F (-17 - 82°C) Fluid 32°– 212° F (0° -100° 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

Email: sales@automata-inc.com • <http://www.automata-inc.com>
 Fax: (530) 478-5881 • Phone: (530) 478-5882 • (800) 994-0380
 104 New Mohawk Rd., Suite A • Nevada City, California 95959

Flow Range (GPM)		
Pipe Size	Min. Flow	Max Flow
2	2.1	209
3	4.6	461
4	7.9	794
6	18	1,800
8	31.2	3,120
10	49.2	4,920
12	70	6,980
16	110	11,020
24	251	25,060



EX101 and EX201