EX 100/200 Series

(EX101/201, 115/215)
ELECTROMAGNETIC INSERTION
FLOW SENSOR SPECIFICATIONS



GENERAL INFORMATION

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 convertors.

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.

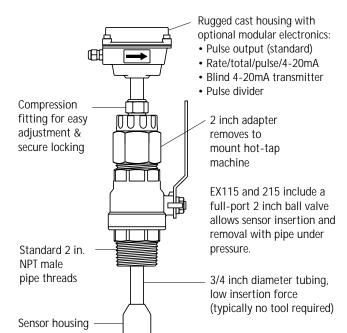
The installation fitting of the EX sensor is standard male NPT, and can be directly threaded into ordinary saddles or threaded weld fittings. The EX115 and 215 include an isolation valve, allowing hot-tap installation, or installation and removal under pressure. The standard isolation valve is Bronze, but a 316 Stainless Steel valve is available as an option if needed.

SPECIFICATIONS

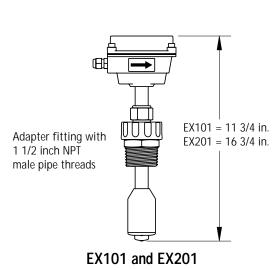
JI L	CITICATION	45		
POV	VER			
	• 12 - 24 Vdc, 250	mA		
FLO'	W RANGE			
	• 0.2 – 20 ft/sec (.0	06 - 6.09 m/sec)		
INST	TALLATION FITTING SIZE	,		
	• EX101, 201 = 1-1,	/2" MNPT • EX115, 21	15 = 2" MNPT	
TEN	IPERATURE			
	• Ambient 0° – 1	180° F (-17 - 82° C)	• Fluid 32°	° – 212° F (0° ⁻ 100° C)
PRE	SSURE			,
	 200 psi (13.8 bar)		
MIN	IMUM CONDUCTIVITY			
	 20 microsiemens/ 	cm		
MAT	ERIALS			
	 Mechanical 	316 SS/Brass	 Electrodes 	Carbon Graphite
	 Electrode plate 	PVDF	 Housing 	Cast powder-coated aluminum
0-RI	NGS			
	• EPDM			
CAL	• 1% of full scale			
OUT				
001		e, opto isolated, 500 Hz	z @ 20 ft/sec	
BI-D	IRECTIONAL (OPTION)	o, opto 13014104, 000 11	20 10 300	
	 Direction output, 	opto isolated		
EMF	PTY PIPE DETECTION	,		
	 Software, default 	s to zero flow		

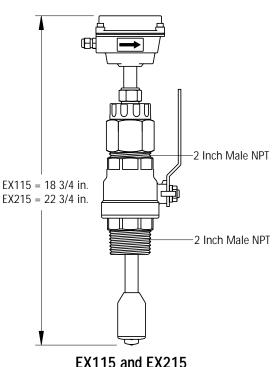
EX100/200 SERIES ELECTROMAGNETIC INSERTION FLOW SENSOR Specifications

DIMENSIONS & FEATURES



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		





HOW TO ORDER

EX-SERIES INSERTION MAGNETIC METERS

Pipe Sizes: Order:

2" - 10" EX101 - _____

10" - 48" EX201 - _____

2" - 10" **EX115 - ___**

10" - 48" **EX215 -** ____

(Place Material Code Here)



B = BrassS = 316 SS



19026 72ND AVE SOUTH, KENT, WA 98032 USA (P) 253.872.0284 (F) 253.872.0285 WWW.SEAMETRICS.COM 1.800.975.8153