

Electromagnetic Insertion Flow Sensors

Seametrics EX100/200-Series Insertion Flow Sensors

EX100 & EX200—Series flow meters are adjustable depth insertion magmeters suitable for installations with a wide range of temperatures, pressure, and chemical conditions. EX-Series meters are available for 3 inch to 48 inch pipe installations, and feature an electrode resistant to fouling. The EX-Series is also available with a hot-tap model that can be installed or serviced

without shutting down the line. These sensors are compatible with external PLC controllers or directly mounted to a FT430 or FT440 Seametrics display.

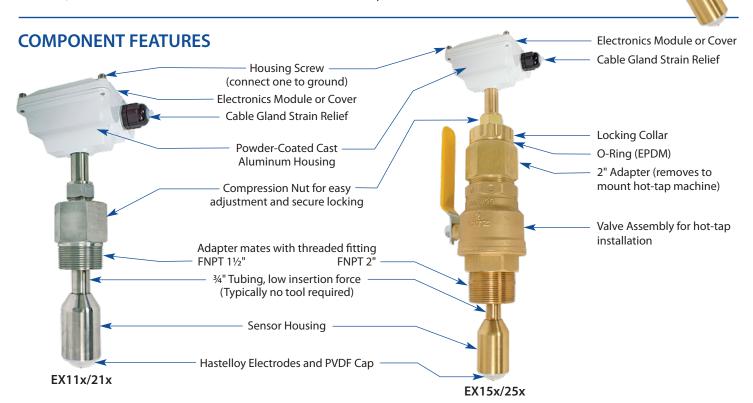
FEATURES

- · Adjustable depth
- · Hot Tap available
- · Stainless or Brass
- No moving parts
- Durable
- · Available reverse flow output
- IP Rating based on mounted display

APPLICATIONS

- Total Fluids Remediation
- · Pump Tests
- Municipal

- Industrial
- Irrigation



CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

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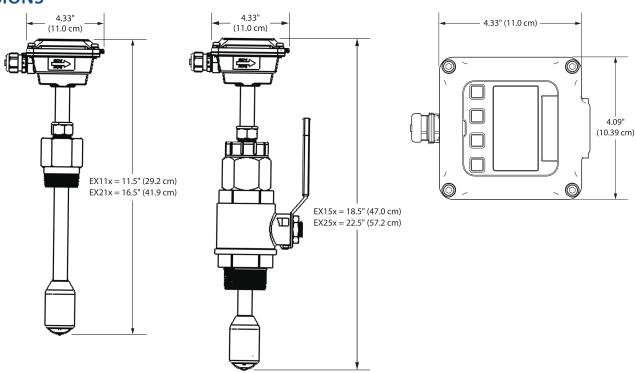
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SPECIFICATIONS*

Pipe Size	3" to 48" (up to 72" optional)			
Power	Full Power: 12-24 VDC, 250mA Low Power: 12-24 VDC, 40mA average with 250mA peaks			
Materials Housing	Powder-coated cast aluminum			
Tubing/Fitting/Sensor Housing	Brass or 316 Stainless Steel			
Electrodes	Hastelloy			
Electrode Cap	PVDF			
O-Ring (15x/25x only)	EPDM			
Valve Assembly (15x/25x only)	Bronze (stainless optional) with bronze ball valve			
Fitting Size Required	11x/21x: 1.5" FNPT 15x/25x: 2" FNPT			
Maximum Pressure	200 psi (14 bar)			
Temperature Ambient	0° to 160°F (-17° to 72°C)			
Fluid	32° to 200°F (0° to 93°C)			
Minimum Conductivity	20 microSiemens/cm			
Flow Velocity	0.28-20 ft./sec. (0.08-6.09 m/sec)			
Accuracy	±1% of full scale			
Output	Square wave pulse, opto-isolated, 500 Hz @ 20 ft./sec.			
-	6 mA max, 30 VDC forward flow standard; reverse flow optional			
Empty Pipe Detection	Software, defaults to zero flow			
Cable	Standard 18' (6m), #22 shielded twisted pair, 4-conn. Max. cable run at 24 VDC = 1000' (300m);			
	at 12 VDC = 500' (150m). For other circumstances, contact Geotech.			
Environmental	See meter mounted electronic specification for rating.			
*Considerations subject to change	Please consult our website for current data (www.geotecheny.com)			

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DIMENSIONS





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FLOW RANGE (GPM)

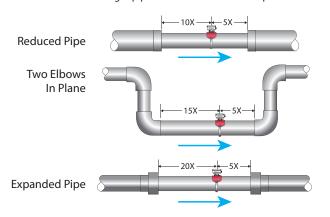
Nominal Pipe Size Minimum Flow **Maximum Flow** 6 440 783 4 11 6 25 1,762 8 44 3,133 10 69 4,895 7,050 12 99 9,596 14 134 12,533 16 175 18 222 15,863 20 274 19,584 24 395 28,200 30 617 44,064 36 888 63,452

1,580

112,804

Straight Pipe Recommendations (X = diameter)

More straight pipe recomendations in the operation manual.



HOW TO ORDER

48

	Description	Size	Sensor Material	Options (110/210)	Options (150/250)
Sensor Only	Externally powered (12-24 VDC) sensor only.	3"-10" pipe = EX110 10"-48" pipe = EX210 Hot Tap 3"-10" pipe = EX150 10"-48" pipe = EX250	Brass = B 316 Stainless = S	Brass Adapter Fitting 2" NPT = -02 SS Adapter Fitting 2" NPT = -02 Reverse Flow Output = -15 Brass Adapter 1½" BSP = -23 SS Adapter 1½" BSP = -24 Old Style Adapter 1½" NPT = -35 Immersible = -40* Low Power = -50 12" Extension (200 Series Only) = -72	316 SS Valve Assembly = -08 No Valve Assembly = -09 Reverse Flow Output = -15 Immersible = -40* Low Power = -50 12" Extension (200 Series Only) = -72
	Description	Size	Sensor Material	Options (113/213)	Options (153/253)
FT430 Mounted on Sensor	Externally powered (12-24 VDC) with FT430 rate and total indicator (with pulse outputs) mounted on the sensor.	3"-10" pipe = EX113 10"-48" pipe = EX213 Hot Tap 3"-10" pipe = EX153 10"-48" pipe = EX253	Brass = B 316 Stainless = S	Brass Adapter Fitting 2" NPT = -02 SS Adapter Fitting 2" NPT = -02 Reverse Flow Output = -15 Brass Adapter 1½" BSP = -23 SS Adapter 1½" BSP = -24 Tamper Evident Kit = -32 Old Style Adapter 1½" NPT = -35 Low Power = -50 Non-resettable Total = -64 12" Extension (200 Series Only) = -72 Hinged Display Cover = -126	316 SS Valve Assembly = -08 No Valve Assembly = -09 Reverse Flow Output = -15 Tamper Evident Kit = -32 Non-resettable Total = -64 12" Extension (200 Series Only) = -72 Dual Relay Output = -98 Hinged Display Cover = -126
5	Description	Size	Sensor Material	Options (116/216)	Options (156/256)
DL76 Mounted on Sensor	Externally powered (12-24 VDC) with self powered DL76 data logger mounted on the sensor.	3"-10" pipe = EX116 10"-48" pipe = EX216 HotTap 3"-10" pipe = EX156 10"-48" pipe = EX256	Brass = B 316 Stainless = S	Brass Adapter Fitting 2" NPT = -02 SS Adapter Fitting 2" NPT = -02 Reverse Flow Output = -15 Brass Adapter 11½" BSP = -23 SS Adapter 11½" BSP = -24 Tamper Evident Kit = -32 Old Style Adapter 1½" NPT = -35 Low Power = -50 12" Extension (200 Series Only) = -72	316 SS Valve Assembly = -08 No Valve Assembly = -09 Reverse Flow Output = -15 Tamper Evident Kit = -32 Low Power = -50 12" Extension (200 Series Only) = -72
FT440 Mounted on Sensor ¹	Description	Size	Sensor Material	Options (119/219)	Options (159/259)
	Externally powered (12-24 VDC) with FT440 rate and total indicator (with pulse and 4-20mA outputs) mounted on the sensor.	3"-10" pipe = EX119 10"-48" pipe = EX219 Hot Tap 3"-10" pipe = EX159 10"-48" pipe = EX259	Brass = B 316 Stainless = S	Brass Adapter Fitting 2" NPT = -02 SS Adapter Fitting 2" NPT = -02 Reverse Flow Output = -15 Brass Adapter 1½" BSP = -23 SS Adapter 1½" BSP = -24 Tamper Evident Kit = -32 Old Style Adapter 1½" NPT = -35 Low Power = -50 Non-resettable Total = -64 12" Extension (200 Series Only) = -72 Hinged Display Cover = -126	316 SS Valve Assembly = -08 No Valve Assembly = -09 Reverse Flow Output = -15 Tamper Evident Kit = -32 Non-resettable Total = -64 12" Extension (200 Series Only) = -72 Dual Relay Output = -98 Hinged Display Cover = -126

^{*} Immersible to maximum of 3 ft. (1m), up to 2 weeks

¹ When ordering an EX with an FT440 mounted, the EX sensor cannot be loop powered.