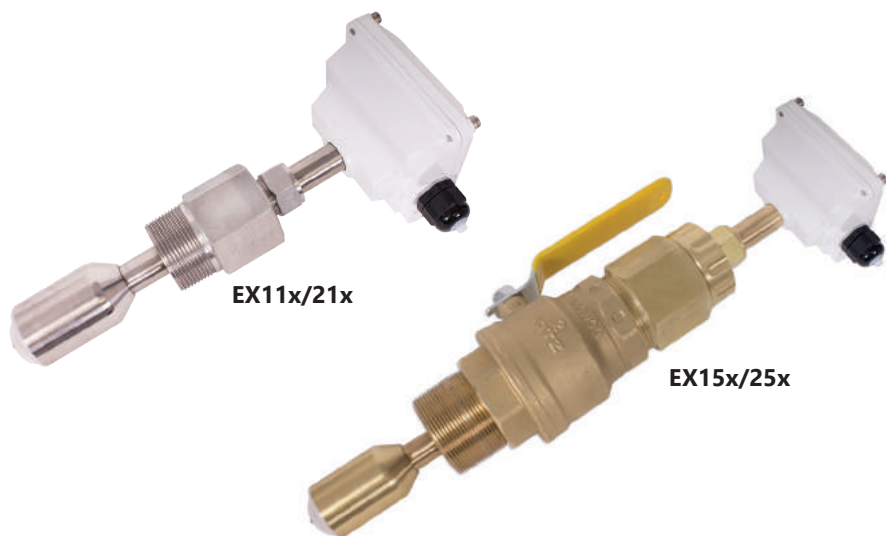


EX100/200-SERIES

Insertion Electromagnetic Flow Sensor



APPLICATIONS

3" - 48" pipe (up to 72" optional)

Clean or "dirty" liquids

Conductive liquids

Municipal

Industrial

Irrigation

Features

- No moving parts
- Durable
- Adjustable depth
- Hot-tap available
- Brass or stainless steel
- Immersibility available
- Reverse flow output available

The **EX100/200-Series** are adjustable depth insertion magmeters that fit 3" to 48" pipe (up to 72" optional). The complete lack of moving parts of the EX100/200-Series is the source of its reliability. 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). Adapters mate with standard 1-1/2" (11x/21x) or 2" (15x/25x) FNPT threaded fittings such as saddles and weldolets which may be purchased either locally or from Seametrics.

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. 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 installed directly on the flow sensor or mounted remotely. The FT430 (externally powered with pulse) and the FT440 (loop powered), both provide digital rate and total displays, as well as a programmable pulse; the FT440 also provides a 4-20 mA analog output. The AO55 is a blind analog (4-20 mA) transmitter. Programmable pulse for pump pacing is available with the PD10 (available as wall-mounted unit only).

The "hot-tap" models (EX15x/25x) can be installed or serviced without shutting down the line by means of a 2" full-port isolation valve that comes with a nipple for installation on the pipe fitting; a bronze ball valve is standard, with a 316 stainless steel valve option if needed. In most circumstances, no special tool is required.

Contact Your Supplier

Seametrics

Reverse flow output and immersibility are optional.



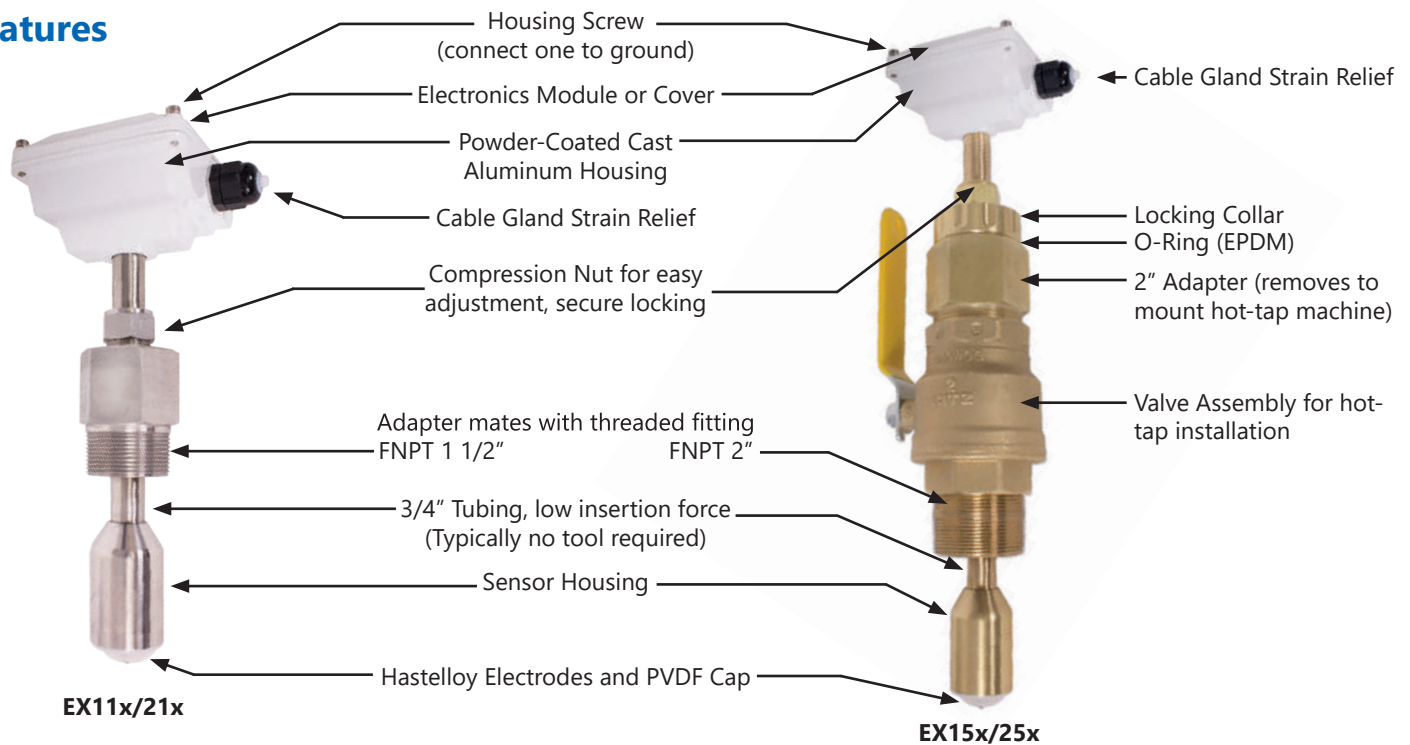
SUMINISTROS HIDRÁULICOS DEL SURESTE SA DE CV
Calle 90 S/N x 63 y 65
Dzityá, Mérida, Yucatán
C.P. 97302 RFC: SHS-080605-CDA
Tel: (999) 4298696 / 4298701 / 4291072
servicioalcliente@suhissa.com.mx
WWW.SUHISSA.COM.MX

SUHISSA[®]
SUMINISTROS HIDRÁULICOS DEL SURESTE SA DE CV

EX100/200-SERIES

Insertion Electromagnetic Flow Sensor

Features



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, 30Vdc 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 the factory.	
Environmental		See meter mounted electronic specification for rating.	
Regulatory		CE Mark (full power only)	

*Specifications subject to change • Please consult our website for current data (www.seametrics.com).



SUMINISTROS HIDRÁULICOS DEL SURESTE SA DE CV

Calle 90 S/N x 63 y 65

Dzityá, Mérida, Yucatán

C.P. 97302 RFC: SHS-080605-CDA

Tel: (999) 4298696 / 4298701 / 4291072

servicioalcliente@suhissa.com.mx

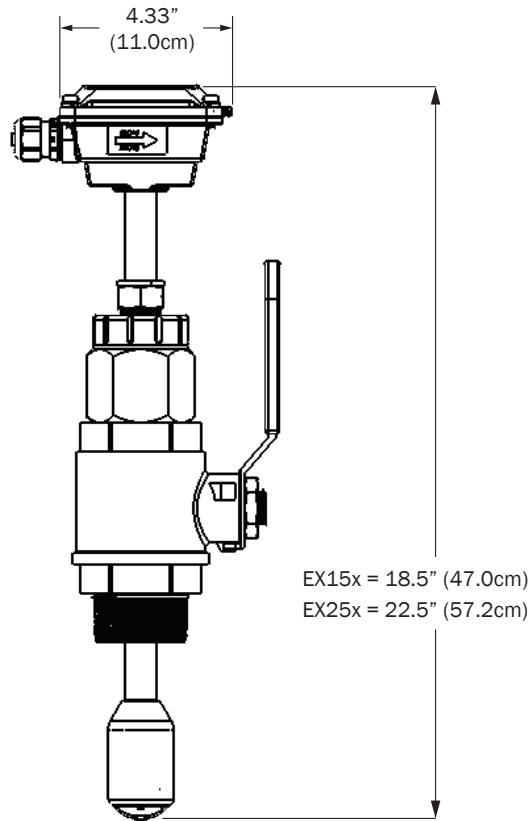
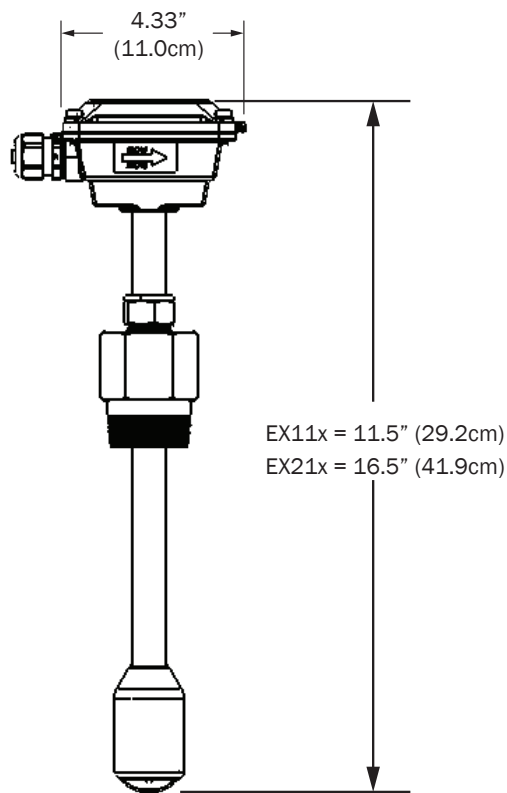
WWW.SUHISSA.COM.MX



EX100/200-SERIES

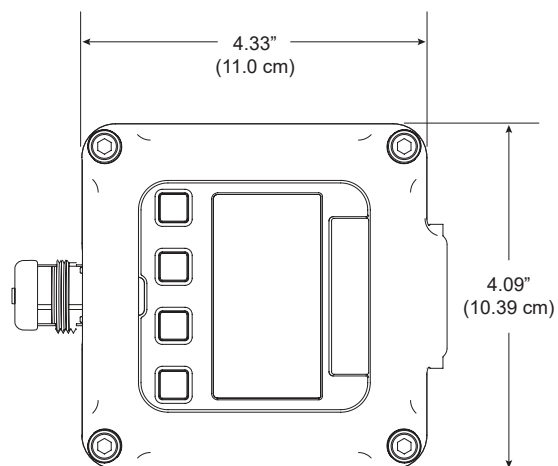
Insertion Electromagnetic Flow Sensor

Dimensions



Flow Range

Flow Range (GPM)		
Nominal Pipe Size	Minimum Flow	Maximum 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



SUMINISTROS HIDRÁULICOS DEL SURESTE SA DE CV
Calle 90 S/N x 63 y 65
Dzityá, Mérida, Yucatán
C.P. 97302 RFC: SHS-080605-CDA
Tel: (999) 4298696 / 4298701 / 4291072
servicioalcliente@suhissa.com.mx
WWW.SUHISSA.COM.MX

SUHISSA[®]
SUMINISTROS HIDRAULICOS DEL SURESTE SA DE CV

EX100/200-SERIES

Insertion Electromagnetic Flow Sensor

How to Order

Sensor Only	Description	Size	Sensor Material	Options (110/210)	Options (150/250)
	Externally powered (12 - 24Vdc) 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 1 1/2" BSP = -23 SS Adapter 1 1/2" BSP = -24 Old Style Adapter 1 1/2" NPT = -35 *Immersible = -40 Low Power = -50 12" Extension (200 Series Only) = -72	316 SS Valve Assembly = -08 No Valve Assembly = -09 316 SS Valve Assembly = -08 Reverse Flow Output = -15 *Immersible = -40 Low Power = -50 12" Extension (200 Series Only) = -72
AO55 Mounted on Sensor	Description	Size	Sensor Material	Options (112/212)	Options (152/252)
	Externally powered (12 - 24Vdc) sensor with AO55 blind 4-20mA analog transmitter mounted on the sensor.	3" - 10" pipe = EX112 10" - 48" pipe = EX212 Hot Tap 3" - 10" pipe = EX152 10" - 48" pipe = EX252	Brass = B 316 Stainless = S	Brass Adapter Fitting 2" NPT = -02 SS Adapter Fitting 2" NPT = -02 Reverse Flow Output = -15 Brass Adapter 1 1/2" BSP = -23 SS Adapter 1 1/2" BSP = -24 Old Style Adapter 1 1/2" NPT = -35 Low Power = -50 12" Extension (200 Series Only) = -72	316 SS Valve Assembly = -08 No Valve Assembly = -09 Reverse Flow Output = -15 Low Power = -50 12" Extension (200 Series Only) = -72
FT430 Mounted on Sensor	Description	Size	Sensor Material	Options (113/213)	Options (153/253)
	Externally powered sensor (12 - 24Vdc) 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 1 1/2" BSP = -23 SS Adapter 1 1/2" BSP = -24 Tamper Evident Kit = -32 Old Style Adapter 1 1/2" 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 Hinged Display Cover = -126
DL76 Mounted on Sensor	Description	Size	Sensor Material	Options (116/216)	Options (156/256)
	Externally powered sensor (12 - 24Vdc) with self powered DL76 data logger mounted on the sensor.	3" - 10" pipe = EX116 10" - 48" pipe = EX216 Hot Tap 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 1 1/2" BSP = -23 SS Adapter 1 1/2" BSP = -24 Tamper Evident Kit = -32 Old Style Adapter 1 1/2" 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	Description	Size	Sensor Material	Options (119/219)	Options (159/259)
	Externally powered sensor (12 - 24Vdc) 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 1 1/2" BSP = -23 SS Adapter 1 1/2" BSP = -24 Tamper Evident Kit = -32 Old Style Adapter 1 1/2" 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 Hinged Display Cover = -126

* Immersible to maximum of 3 ft (1m), up to 2 weeks • Roytronic is a registered trademark of Milton Roy Company.



SUMINISTROS HIDRÁULICOS DEL SURESTE SA DE CV
Calle 90 S/N x 63 y 65
Dzityá, Mérida, Yucatán
C.P. 97302 RFC: SHS-080605-CDA
Tel: (999) 4298696 / 4298701 / 4291072
servicioalcliente@suhissa.com.mx
WWW.SUHISSA.COM.MX

