



EX90-Series insertion flow meters are suitable for installations with a wide range of temperature, pressure, and environments that are corrosive or with debris. EX90 meters are available 4 inch to 12 inch pipe installations, and feature an electrode resistant to fouling. Includes a battery powered programmable controller with display, and output signal to remote devices.

FEATURES

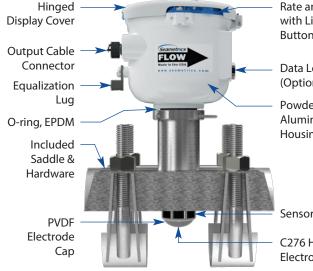
- Easy to install
- Easy to maintain
- No moving parts
- Pulse output standard
- IP67 rated
- Economical and Durable

APPLICATIONS

- Remediation
- Municipal water
- · Water/Wastewater treatment
- Reuse/Reclaimed water
- Industrial processes
- · Cooling towers
- · Pump towers
- Dewatering



COMPONENT FEATURES



Rate and Total Indicator with Light Sensor Button Controls

Data Logger Connector (Optional)

Powder-Coated Diecast Aluminum Electronics Housing

Sensor Body (Stainless)

C276 Hastelloy Electrodes



Quickly and easily change Total Volume Units, Flow Rate Units, Pulse Output Scaling, and many other settings using the two light sensor button controls on the display panel.

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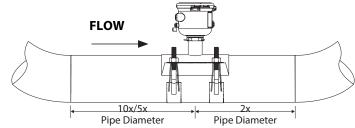


Electromagnetic Insertion Flow Sensors

		Technical Specifications		
Pipe Size	4" to 12"			
Materials Sensor Body Electrodes Housing Electrode Cap O-Ring	315 SS Hastelloy Powder-coated diecast aluminum PVDF (Kynar*) EPDM			
Temperature Operating Storage Fluid Temp.	10° to 140° F (-12° to 60° C) -40° to 158°F (-40° to 70°C) 32° to 200°F (0° to 93°C)			
Pressure	200 psi (14 bar)	200 psi (14 bar)		
Calibration Accuracy 0.5-4.5 m/s (1.64-14.76 ft./sec.) 0.3-0.5 m/s (0.98-1.64 ft./sec.)	$\pm 2\%$ of reading $\pm .25\%$ of full scale)			
Display Type Digits Unitis	128 X 64 dot-matrix LCD 5 Digit Rate Rate Volume Units	5 Digit Rate Rate Time Units	8 Digit Total Total Volume Units	
Please Note: All Meters are factory set for gallons per minute (GPM) rate and acre foot total. If other units are required, they can be set in the field.	Gallons Liters Barrels (42 gallons) Cubic Feet Cubic Meters Million Gallons ¹ Mega Liters ¹ Imperial Gallons Million Imperial Gallons ¹	Second Minute Hour Day	Gallons Gallons x 10 Gallons x 100 Gallons x 1000 Million Gallons Liters Kilo Leters Mega Liters Barrels (42 gallons) Cubic Meters	Cubic Meters x 1000 Cubic Feet Cubic Feet x 1000 Million Cubic Feet Imperial Gallons Imperial Gallons x 1000 Million Imperial Gallons Acre Inch Acre Foot Fluid Ounce
Bidirectional	Forward Total, Reverse Total, Net Total, Batch Forward, Batch Reverse Total			
Power	One lithium 7.2 V 'D' size battery pack, replaceable. DC Power Available for 4-2mA max.			
Scaled Pulse Output Signal Pulse Rates	Current sinking pulse, isolated, 36 VDC at 10 mA max. User-scalable from 0.1 to 99,999.9 volume units/pulse. Pulse width varies with output frequency, 150 pulses/sec max.			
Options 4-20Ma Current Loop Serial Communications Sensus Smart Output	Isolated, passive, 24Vdc, 650 maximum current loop (External DC powered units only) Isolated, asynchronous serial RS485, Modbus RTU protocol Connects to Sensus SmartPoint			
Optional Output Cable	20 ft. (6 m) standard length polyurethane jacketed cable — for power and outputs (Lengths up to 200'/60 m available).			
Conductivity	>20 microSiemens/cm			
Empty Pipe Detection	Hardware/Software, conductivity-based			
Regulatory	Certified to NSF/ANSI standard 61 and NSF 372			
Environmental	IP67			
¹ Rate Time Unit is available in Day only. Kynar is a registered trademark of Arkema, Inc.				

FLOW RANGE

Nominal Pipe Size	4"	6"	8″	10"	12"
Low Flow Cutoff GPM	19.3	43.11	77.1	120.5	173.5
Low Flow Cutoff LPS	1.22	2.72	4.86	7.6	10.95
Min GPM	64.3	144.6	257	401.6	578.3
Min LPS	4.1	9.1	16.2	25.3	36.5
Max GPM	578	1301	2313	3614	5204
Max LPS	36.5	82.1	145.9	228	328.3



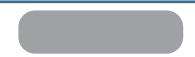
Upstream straight pipe is selected during initial setup. Upstream options are 5X or 10X the diameter and are based on the amount of straight pipe available in either new or propeller meter replacement installation. Downstream straight pipe requirement is 2X the diameter. See programming setup for details.

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Geotech Environmental Equipment, Inc. 2650 East 40th Avenue Denver, Colorado 80205

(303) 320-4764 FAX (303) 322 7242 email: sales@geotechenv.com website: www.geotechenv.com

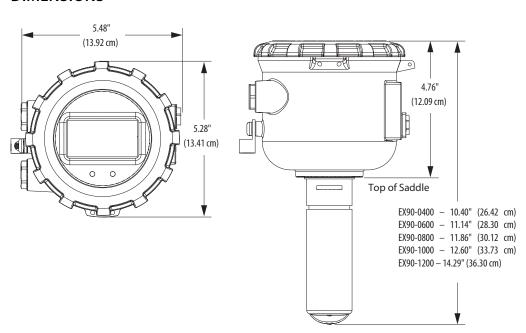


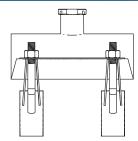
^{*}Specifications subject to change.





DIMENSIONS





Each saddle has a range of actual pipe size O.D. that it will work with. When you order your meter, you will specify the nominal pipe size and the saddle provided will work with the following actual pipe O.D.

Saddle Size	Range		
4"	4.00"-4.90"		
6"	6.00"-6.90"		
8"	8.00"-9.05"		
10"	10.00"-11.10"		
12"	12.10"-13.20"		

Consult Geotech if your OD does not match.

Size	Power	Optional Output (Comes standard with one pulse output)		Options		Power/Output Cable (Must select one)
-0400 4"	-BX	-X (requires single cable for pulse output)	-xx	None	-0000	No Cable (customer will supply)
-0600 6"			-01	Data Logger	-0064	6 meter (20 ft.)
-0800 8"					-0154	15 meter (50 ft.)
-1000 10"					-0304	30 meter (100 ft.)
-1200 12"					-0454	45 meter (150 ft.)
					-0604	60 meter (200 ft.)

Note: All meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be programmed in the field.

Note 2: Saddle included with meter.

Note 3: The EX90 can be externally powered by connecting DC power with the power/output cable. Batteries then serve as backup power.

For chemical or fertilizer injection applications, the injection point must be placed downstream of the meter or far enough upstream for complete mixing to occur before the flow reaches the meter. (See fertigation technical bulletin on Seametrics website, seametrics.com)

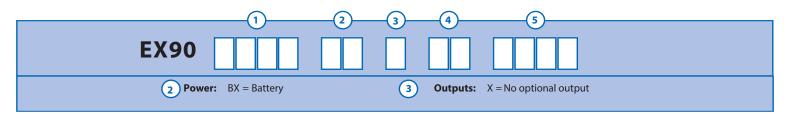
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Order with Weldolet (Select weldolet type below)



(1)	(2)	3	4		
Size	Power	Optional Output (Comes standard with one pulse output)	Options		Power/Output Cable (Must select one)
-040R 4"	-BX	-X (requires 4-pin cable for pulse output)	-XX None	0000 No Cable	(Cable required for power/output)
-060R 6"		-S (requires 8-pin cable)	-01 Data Logger	4 Conductor	8 Conductor
-080R 8"			-02 Sensus Smart Output	0064	0068 6 meter (20 ft)
-100R 10"			(Includes 6' Cable)	0154	0158 15 meter (50 ft)
	-D1	-L (requires 8-pin cable)		0304	0308 30 meter (100 ft)
-120R 12"	-D2			0454	0458 45 meter (150 ft)
				0604	0608 60 meter (200 ft)

Modbus is a registered trademark of Schneider Electric.

Note: All meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be programmed in the field.

Note2: Saddle included with meter

Note3: The EX90 -BX can be externally powered by connecting DC power with the power/output cable. Batteries then serve as backup power.

 $Note 4: Battery\ life\ is\ shortened\ when\ using\ Modbus\ with\ battery\ powered\ units.\ Expected\ battery\ life\ is\ approximately\ 1\ year,\ based\ on\ usage.$

For chemical or fertilizer injection applications, the injection point must be placed downstream of the meter or far enough upstream for complete mixing to occur before the flow reaches the meter. (See fertigation technical bulletin on Seametrics website, seametrics.com.)

User is responsible for reviewing end use application with their supplier for product suitability.

WELDOLET #	DESCRIPTION
104122-04-CS	Weldolet Kit, Carbon Steel 4"
104122-04-SS	Weldolet Kit, Stainless Steel 4"
104122-06-CS	Weldolet Kit, Carbon Steel 6"
104122-06-SS	Weldolet Kit, Stainless Steel 6"
104122-08-CS	Weldolet Kit, Carbon Steel 8"
104122-08-SS	Weldolet Kit, Stainless Steel 8"
104122-10-CS	Weldolet Kit, Carbon Steel 10"
104122-10-SS	Weldolet Kit, Stainless Steel 10"
104122-12-CS	Weldolet Kit, Carbon Steel 12"
104122-12-SS	Weldolet Kit, Stainless Steel 12"





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