



APPLICATIONS Municipal water Water/Wastewater treatment Reuse/Reclaim water Industrial processes Cooling towers Pump towers Dewatering

Features

- No moving parts
- Economical
- Durable
- Easy to install
- Easy to maintain
- Pulse output standard
- 4 year battery life
- NSF/ANSI Standard 61

Contact Your Supplier

The **EX90-series** battery powered, insertion electromagnetic flow meter is designed for use with conductive fluids in 4"–12" pipe. The EX90's stainless steel body allows the meter to operate in a wide range of temperatures, pressure, and corrosive or dirty environments.

The EX90 is highly suitable for difficult applications. With no moving parts, these meters can be used in "dirty water" applications where debris would foul a mechanical meter. If the EX90 meter is used with a programmable controller, the output signal can be fed direct, with no other conditioning required.

Rate and total units can be set via the front panel touch key pad by the user. Bidirectional flow is standard with totals available in forward, reverse, net, batch forward and batch reverse.

The EX90 is battery powered with an output cable available for transmitting the pulse signal to remote devices. The EX90 can be ordered with a saddle or weld fitting designed to accommodate a wide range of pipe sizes and types while ensuring correct placement in the pipe. In addition, an optional internal data logger allows local storage of flow history.

The EX90 is also ideal for replacement of mechanical style propeller meters.





Specifications*

Sensor Body 316 SS Electrodes Hastelloy Housing Powder-coated diecast aluminum Electrode Cap PVDF (kynar ®) O-Ring EPDM Temperature Operating 10' to 140' F (-12' to 60' C) (Pipe Size		4" to 12"					
Instrumentation Instrumentation Instrumentation Electrode Cap PVDF (Kynar#) PVDF (Kynar#) O-Ring EPDM Interval Operating 10° to 140° F (-12° to 60° C) Storage -40° to 158° F (-40° to 70° C) Fremperature Operating 10° to 140° F (-12° to 60° C) Storage -40° to 158° F (-40° to 70° C) Fremsure 200 psi (14 bar) Now Rate 0.5 - 4.5 m/sc (1.64 - 14.8 ft/sec) (Low flow cutoff .15 m/sec; .49 ft/sec) Calibration 0.5 - 4.5 m/sc (1.64 - 14.8 ft/sec) (Low flow cutoff .15 m/sec; .49 ft/sec) Calibration 0.5 - 4.5 m/sc (1.64 - 14.8 ft/sec) (Low flow cutoff .15 m/sec; .49 ft/sec) Calibration 0.5 - 4.5 m/sc (1.64 - 14.8 ft/sec) Calibration 0.5 - 5.4 5 m/sc (1.64 - 14.8 ft/sec) Calibration 0.5 - 6.1 m/sc (1.64 - 14.8 ft/sec) Calibration 0.5 - 6.1 m/sc (1.64 - 14.8 ft/sec) Calibration 0.5 - 6.1 m/sc (1.64 - 14.8 ft/sec) Calibration 0.5 - 6.1 m/sc (1.64 - 14.8 ft/sec) Misson regimeration 128/s6 dot-matrix LCD Digits 5 Digit Rate 8 Digit Total	•							
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Empty Pipe Detection Hardware/software, conductivity-based Regulatory Certified to NSF/ANSI standard 61 and NSF 372 (Stainless only with EPDM O-ring. Viton pending).	Cable		20ft (6m) standard length polyurethane jacketed cable—for power and outputs. (Lengths up to 200' (60 m) available.)					
Regulatory Certified to NSF/ANSI standard 61 and NSF 372 (Stainless only with EPDM O-ring. Viton pending).	Conductivity		>20 microSiemens/cm					
	Empty Pipe Detection		Hardware/software, conductivity-based					
	Regulatory		Certified to NSF/ANSI standard 61 and NSF 372 (Stainless only with EPDM O-ring. Viton pending).					
invironmental IP07	Environmental		IP67					

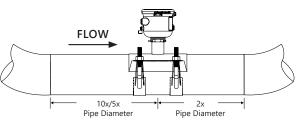
* Specifications subject to change. Please consult our website for the most current data (seametrics.com).

¹ Rate Time Unit is available in Day only.

² Forward and reverse flow totals are non-resettable. Batch forward and batch reverse totals can be reset. Kynar is a registered trademark of Arkema, Inc.

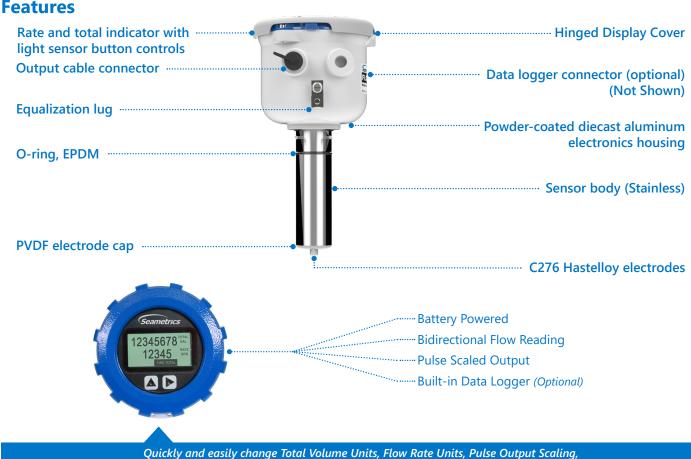
Flow Range*

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



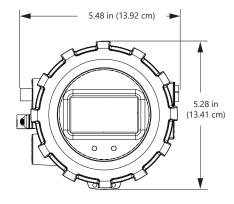
Upstream straight pipe is selected during initial setup. Upstream options are 5X or 10X the diameter and are based on the amount of straight pipe available in either new or propeller meter replacement installation. Downstream straight pipe requirement is 2X the diameter. See programming setup for details.

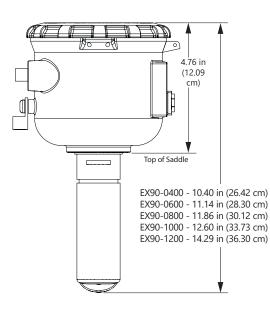


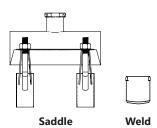


and many other settings using the two light sensor button controls on the display panel.

Dimensions





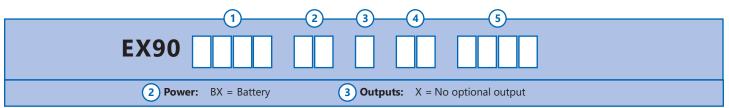


Saddle Size	Saddle Range	Carbon or 316 SS Weld Fitting	
4″	4.00"- 4.90"	4″	
6″	6.00"- 6.90"	6″	
8″	8.00" - 9.05"	8″	
10″	10.00" - 11.10"	10″	
12″	12.10″ - 13.20″	12″	

Consult factory if your OD does not match.



How to Order Worksheet



Saddle Included

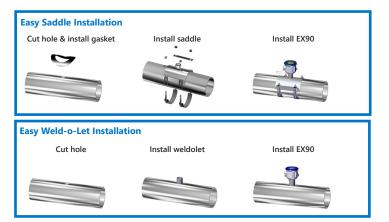
(1)	2	(3)	(4)	5
Size	Power	Optional Output (Comes standard with one pulse output)	Options	Power/Output Cable (Must select one)
-0400 4"	-BX	-X (requires single cable for pulse output)	-XX None	-0000 No Cable (Cable required for power/output)
-0600 6″			-01 Data Logger	-0064 6 meter (20 ft)
-0800 8″				-0154 15 meter (50 ft)
-1000 10"				-0304 30 meter (100 ft)
-1200 12"				-0454 45 meter (150 ft)
				-0604 60 meter (200 ft)

Order with Weldolet (Select weldolet type below)

(1)	2	3	(4)	(5)
Size	Power	Optional Output (Comes standard with one pulse output)	Options	Power/Output Cable (Must select one)
-040R 4"	-BX	-X (requires single cable for pulse output)	-XX None	-0000 No Cable (Cable required for power/output)
-060R 6"			-01 Data Logger	-0064 6 meter (20 ft)
-080R 8″				-0154 15 meter (50 ft)
-100R 10"				-0304 30 meter (100 ft)
-120R 12"				-0454 45 meter (150 ft)
				-0604 60 meter (200 ft)

Note1: 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: The EX90 can be externally powered by connecting DC power with the power/output cable. Batteries then serve as backup power.

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"



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