BATTLECARD

AG90 SERIES ELECTROMAGNETIC FLOW SENSOR

Quick Facts/Features

- Saddle/insertion electromagnetic flow sensor
- For use in 4" to 12" pipes
- Easy to install
- Easily retrofitted to mechanical propeller meter installations
- Low maintanence, no moving parts, resistant to wear from debris
- Bidirectional flow readings Forward, Reverse, Net, Batch Forward, Batch Reverse
- Battery powered
- Highly suitable for dirty water applications
- Same mounted display as the AG3000
- Pulse output is set by user
- Software included to filter out noise and averages sudden variation
- Optional add-ons include: output cable, internal data logger

Market: Irrigation

Applications

- Irrigation
- Reuse/reclaimed water
- Surface water
- Well usage monitoring
- Agricultural automation
- Poultry processing
- Dairy Lagoons

Competitors

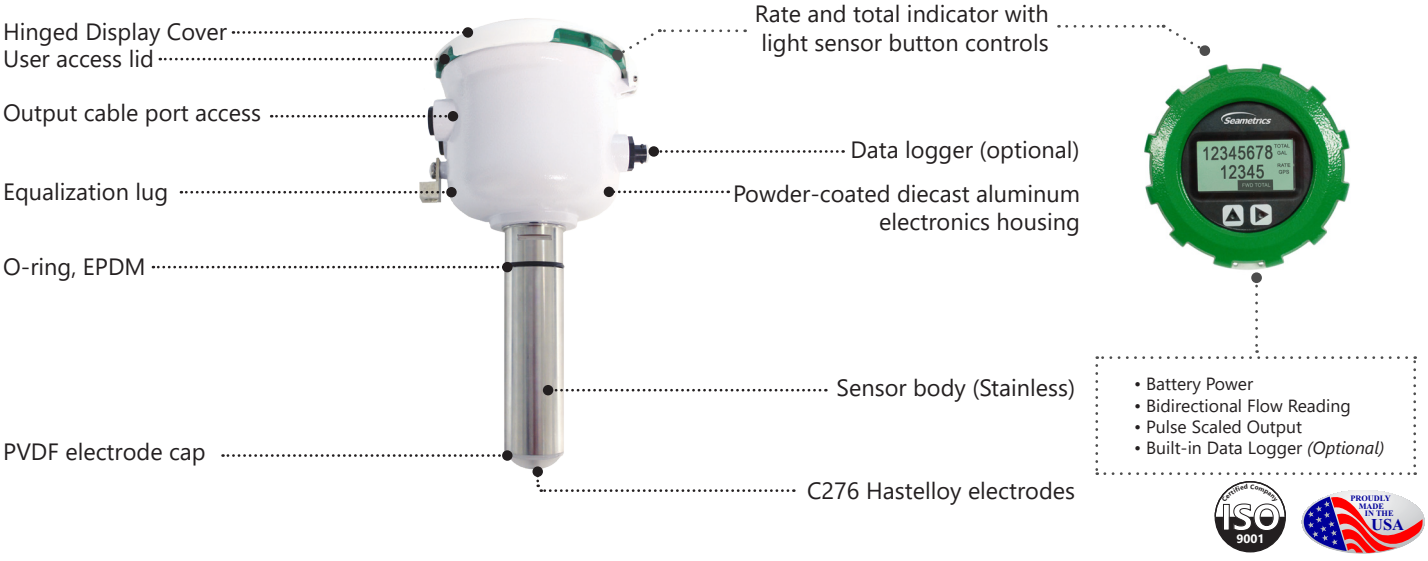
- **McCrometer, Water Specialties and Sparling Propeller Meters!**
- McMAG3000 insertion magmeter

Programming - Similar to the AG3000 with the addition of three items required for the meter to function

- **The pipe I.D.**
- **Type of hole** - **Large** for mechanical replacement or **Small** for new installation
- **Pipe configuration** - **5/2** (5 dia. up, 2 dia. down), **10/2** (10 dia. up, 2 dia. down), **Straight** (conditions with 10 diameters or more)
- If anything else is installed upstream of the meter, that might cause a disturbance, additional straight pipe may be required)

Note: *Since this product is an insertion meter (vs. flanged) there are built in algorithms that will compensate for the above differences, allowing the meter to perform correctly for the conditions*

AG90 Meter Anatomy



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Key Specifications

Pipe Size		4" to 12"			
Materials	**Sensor Body**	316 SS			
	Electrodes	Hastelloy			
	Housing	Powder-coated diecast aluminum			
	Electrode Cap	PVDF (Kynar®)			
	O-Ring	EPDM			
Temperature	**Ambient Temperature**	0˚ to 160˚ F (-17˚ to 72˚ C)			
	Fluid Temp.	32˚ to 200˚ F (0˚ to 93˚ C)			
Pressure		200 psi (14 bar)			
Flow Rate		0.5 - 4.5 m/sec (1.64 - 14.8 ft/sec) (Low flow cutoff .15 m/sec; .49 ft/sec)			
Calibration Accuracy	**0.5 - 4.5 m/s (1.64-14.76 ft/sec)**	+/- 2% of reading			
	0.3 - 0.5 m/sec (0.98 - 1.64 ft/sec)	+/- (2% of reading + 0.25% of full scale)			
Display	**Type**	128x64 dot-matrix LCD			
	Digits	5 Digit Rate		8 Digit Total	
	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.*	Rate Volume Units	Rate Time Units	Total Volume Units	
		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 Liters 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			
Power		One lithium 7.2V 'D' size battery pack, replaceable.			
Scaled Pulse Output	**Signal**	Current sinking pulse, isolated, 36 Vdc at 10 mA max			
	Pulse Rates	User-scalable from 0.1 to 99,999.9 volume units/pulse. Pulse width varies with output frequency, 150 pulses/sec max			
Cable	**Optional Output Cable**	20ft (6m) 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		CE (EN 61326) Pending			
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.

Kynar is a registered trademark of Arkema, Inc.

Flow Rate

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

AG90 electromagnetic wave diagram

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