WMP-Series
Plastic-Bodied Magmeter

ISO 9001:2008 CERTIFIED COMPANY


Unobstructed Flow

APPLICATIONS

Usage monitoring, such as:

- Industrial wastewater discharge
- Grey water
- Well monitoring
- Irrigation

FEATURES

- No moving parts
- Minimal straight pipe required
- Battery powered
- Built-in rate & total indicator
- Corrosion resistant
- Pulse output (WMP101 only)

GENERAL INFORMATION

The WMP-Series is a full-bore, plastic-bodied electromagnetic flow meter designed for flow and usage monitoring applications in 1, 2 and 3 inch pipe. The polypropylene flow tube offers corrosion resistance to a wide range of chemicals and fertilizers. It is light weight and easy to install or remove from the pipe for inspection*.

With no moving parts, the magmeter permits unobstructed flow, minimizing flow disturbances and straight pipe requirements. The WMP-Series can be used in piping configurations where there is little space between the meter and an elbow or valve. The WMP-Series is resistant to wear from sand and debris found in ground or surface water. Since there are no bearings or propeller to wear out, maintenance and repair costs are kept to a minimum and it tolerates high flows without damage.

A hinged polyethylene cover is included that protects from dust and UV rays, while permitting easy access to the flow rate and total display. The electronics housing can be fitted with cross-drilled screws and seal wire for tamper-evidence. Flow rate and total can be displayed in a variety of units, customer-selected and factory-set.

The WMP-Series is used for tracking flow rate and total flow in usage monitoring applications including wells, industrial wastewater, heap leach mining discharge, cooling tower deduct, turf, landscape, and other water reclamation applications. In the event of DC power loss, or when changing batteries, the WMP will retain internal settings and flow total.

The **WMP101** is externally powered via a 5-pin connector cable (20ft/6m) which also provides pulse output for use with a variety of Seametrics and other displays and controls for remote reading, data logging, pulse-to-analog conversion, and telemetry applications.

The **WMP104** is a battery-operated unit for use when pulse output is not required. The standard batteries are user replaceable with an approximate 1 year life depending on usage. An extended battery life option offers an estimated 2-4 year life depending on usage.

**Includes Seametrics NPT fitting kit on 2" and 3" models.*

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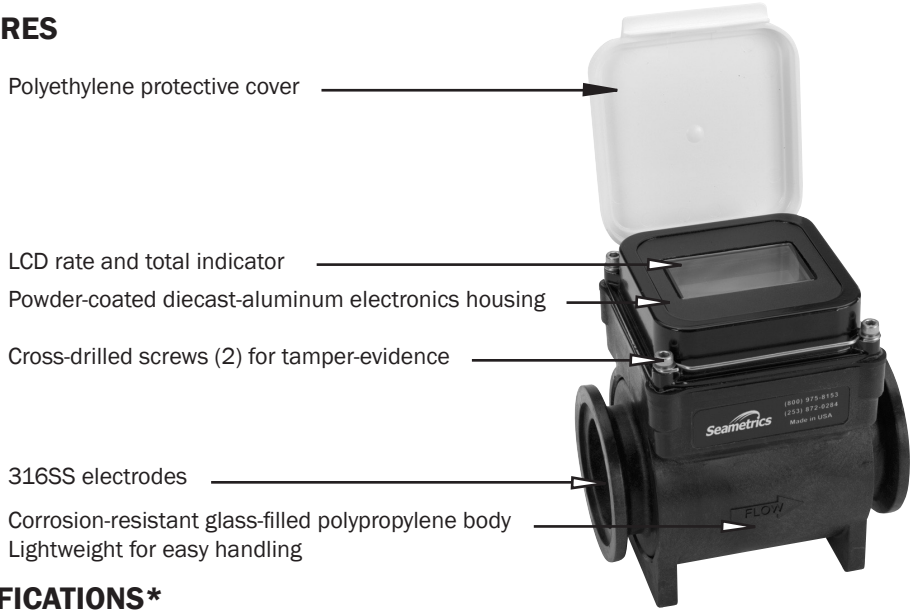
FEATURES



Seametrics Fitting Kit for 2 & 3 inch model

SPECIFICATIONS*

Pipe Size		1, 2 or 3 inch full port			
Fittings		1 inch NPTF, 2 or 3 inch flange clamps with 2 or 3 inch NPTF fitting kit			
Pressure		150 psi or 10.3 bar working pressure @ 70˚ F			
Operating Temperature Range		10˚ to 130˚ F (-12˚ to 54˚ C) operating, -40˚ to 176˚ F (-40˚ to 80˚ C) non-operating			
Accuracy		**+/-1% of reading** (between 10% and 100% of max flow)			
		+/-3% of reading (between cutoff and 10% of max flow)			
Flow Range	**Minimum**	1 inch: 2.3 GPM (.145 LPS)	2 inch: 6 GPM (.38 LPS)	3 inch: 14 GPM (.88 LPS)	
	Maximum	1 inch: 110 GPM (6.94 LPS)	2 inch: 300 GPM (18.9 LPS)	3 inch: 670 GPM (42.3 LPS)	
Materials	**Body**	Glass-filled polypropylene			
	Electrodes	316 stainless steel			
	Electronics Housing	Diecast aluminum, powder-coated			
	Display Cover	Polyethylene			
Display	**Digits**	**Rate**		**Total**	
		6		8	
	Units	Gallons/Minute, Cubic Feet/Second, Cubic Feet/Minute, Liters/Second Liters/Minute, Cubic Meters/Minute		Acre-Feet, Acre-Inch, Gallons, Gallons x 1000, Cubic Feet, Liters, Megaliters, Cubic Meters	
Security		Cross-drilled screws and tamper-evident seal (optional)			
Power	**WMP101**	10-30 Vdc @ 60 mA max (15 mA average) NOTE: Using an unregulated power supply >18 Vdc may damage the meter due to AC line input voltage fluctuation			
	WMP104	6 each AA alkaline cells, replaceable. Estimated life is 1 year depending on usage (standard)			
		2 each C lithium batteries, replaceable. Estimated life is 2-4 years depending on usage (Extended battery life option)			
Pulse Output Signal (WMP101 Only)		Current sinking pulse, opto isolated, 32 Vdc max at 10 mA max			
Pulse Rate (WMP101 Only)	**Low Frequency (-PxU)**	1 unit/pulse out, pulse width of 10ms depending on unit selection			
	High Frequency (-HF)	**1”**	**2”**	**3”**	Pulse width 1.1 ms, min - max frequency, 3 - 150 hz
	Pulse/Gal	80	30	13	
	Pulse/Liter	21.136	7.926	3.435	
Empty Pipe Detection		Hardware/software, conductivity-based			
Conductivity		>20 microSiemens/cm			
Environmental		NEMA 4X standard			
Electrical Connection (WMP101 Only)		5 pin male circular connector, mates to industry standard cable			

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

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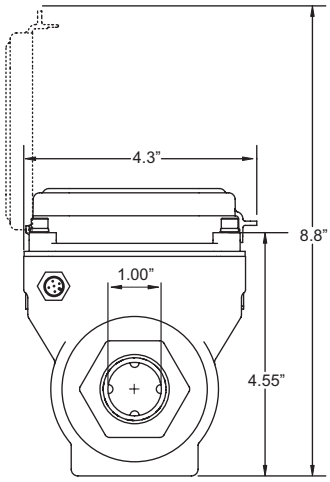
DIMENSIONS

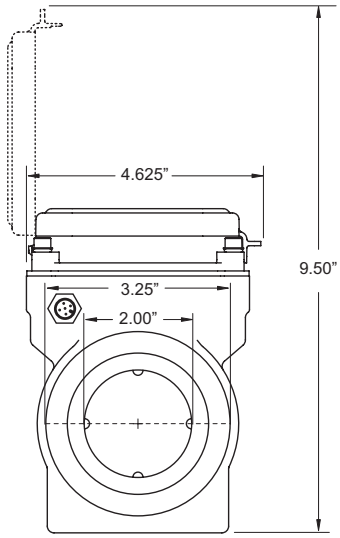
Power/Output Cable - WMP101 Only

Seametrics WMP Fitting Kit (Not Shown)

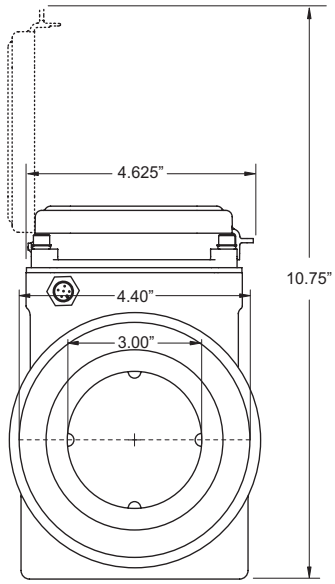
1 Inch

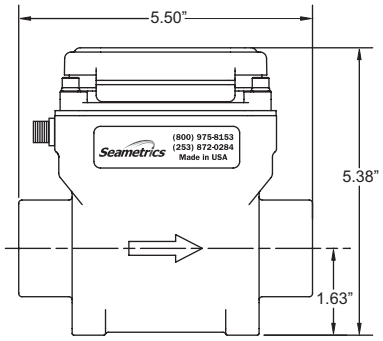


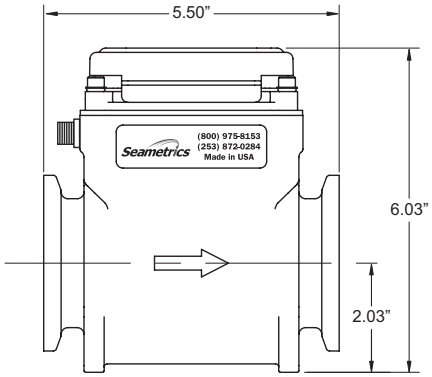
2 Inch

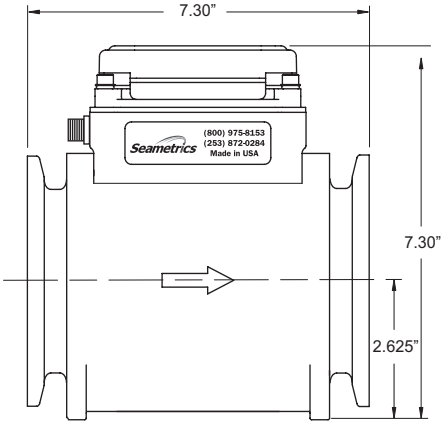


3 Inch

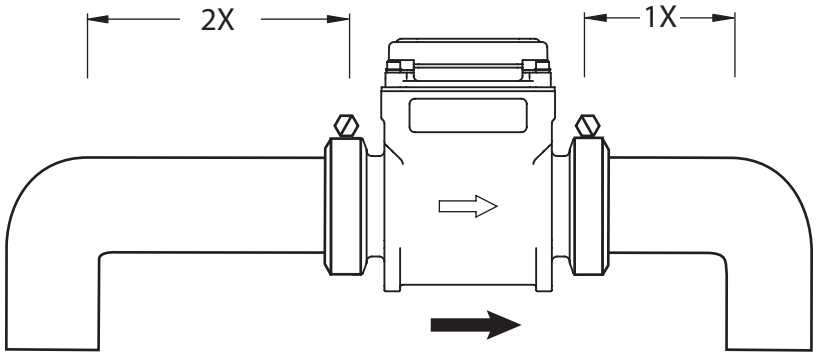








STRAIGHT PIPE RECOMMENDATIONS



Minimal straight pipe required between elbows.

For other piping configurations, consult factory.

FLOW RANGE

	1"		2"		3"	
	Gal/Min	**Liter/Sec**	**Gal/Min**	**Liter/Sec**	**Gal/Min**	**Liter/Sec**
Minimum	2.3	.145	6	.38	14	.88
Maximum	110	6.94	300	18.9	670	42.3

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HOW TO ORDER

MODEL

External Power = **WMP101**

Battery Power = **WMP104**

SIZE

1" = **-100**

2" = **-200**

3" = -300

OPTIONS

Tamper-evident seal, screws, and wire **= -32**

Extended Battery Life **= -133 (WMP104 Only)**

*High frequency output **= -HF (WMP101 Only)**

BSP fittings = **-93**

*See specifications for default.

UNITS

RATE	ORDER	TOTAL	ORDER
Gal/Min	= **GPM**	Gal	= **G**
Liters/Sec	= **LPS**	Gal x 1000	= **GT**
Liter/Min	= **LPM**	Cubic Feet	= **CF**
Cu Ft/Sec	= **CFS**	Acre Inch	= **AI**
Cu Ft/Min	= **CFM**	Acre Feet	= **AF**
Cu Met/Min	= **CMM**	Liter	= **L**
Cu Met/Hr	= **CMH**	Mega Liters	= **ML**
Mil Gal/Day	= **MGD**	Cubic Meters	= **CM**
Mil Lit/Day	= **MLD**	Cu Met x 1000	= **CMT**

Consult factory for additional units.

ACCESSORIES

Remote 4-20 mA (analog) signal = **AO55W (-HF Option Required, WMP101 Only)**

Remote Rate and Total Indicator = **FT420W (-HF Option Required, WMP101 Only)**

Remote Data Logger = **DL76W (WMP101 Only)**

CONTACT YOUR SUPPLIER

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