

# WMP-Series

## PLASTIC-BODIED MAGMETER



### APPLICATIONS

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

### Features

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



### Contact Your Supplier

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.

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 **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.

In the event of DC power loss, or when changing batteries, the WMP will retain internal settings and flow total.



## Features



**Seametrics Fitting Kit**

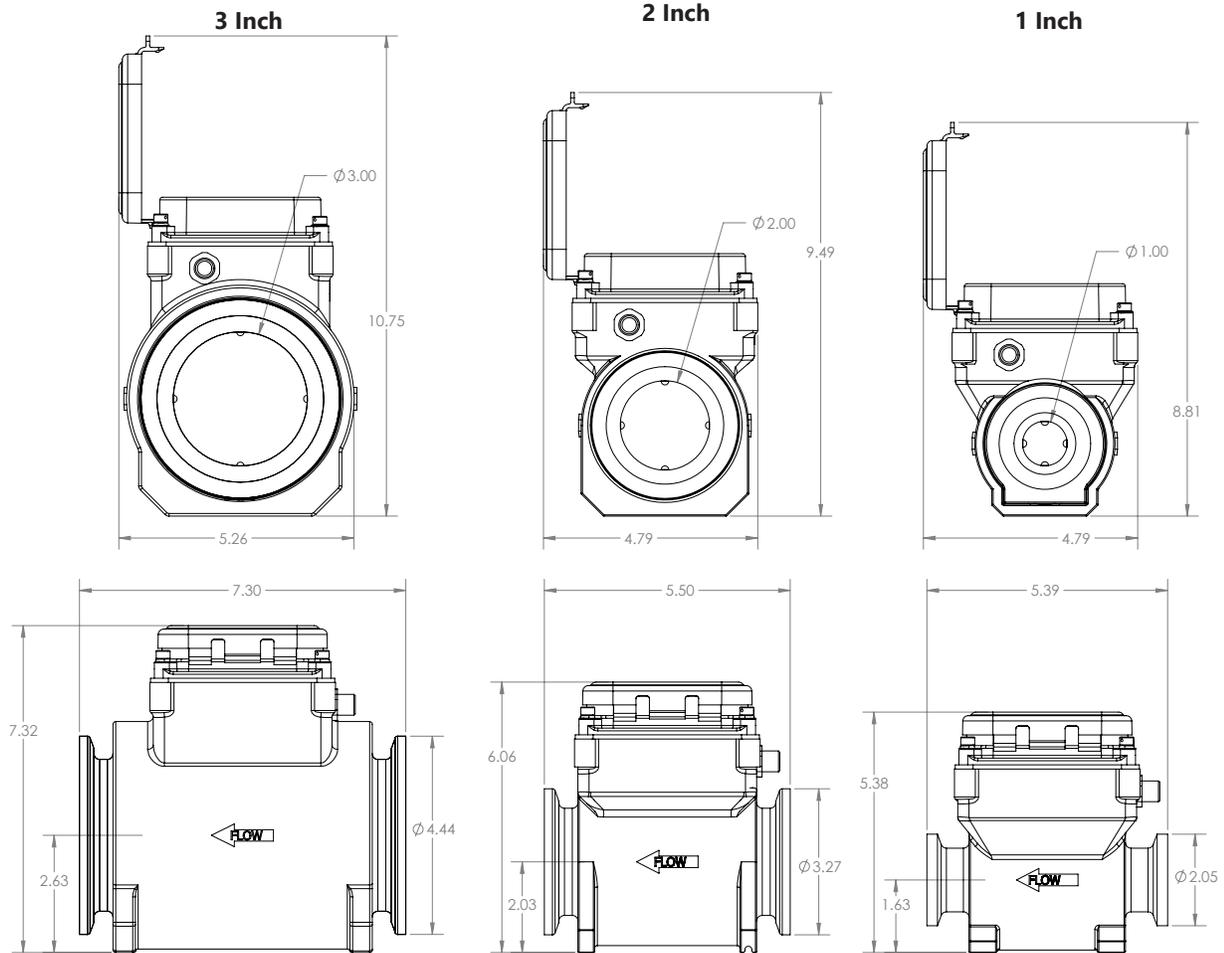
## Specifications\*

<b>Pipe Size</b>	1, 2, or 3 inch full port				
<b>Fittings</b>	1, 2 or 3 inch flange clamps with NPTF fitting kit				
<b>Pressure</b>	150 psi or 10.3 bar working pressure @ 70° F				
<b>Operating Temperature Range</b>	Operating: 10° to 130° F (-12° to 54° C), Non-operating: -40° to 176° F (-40° to 80° C)				
<b>Accuracy</b>	±1% of reading (between 10% and 100% of maximum flow) ±3% of reading (between cutoff and 10% of maximum flow)				
<b>Flow Range</b>	<b>Minimum</b>	<b>1"</b> : 2.3 gpm (0.145 l/s)	<b>2"</b> : 6 gpm (0.38 l/s)	<b>3"</b> : 14 gpm (0.88 l/s)	
	<b>Maximum</b>	<b>1"</b> : 110 gpm (6.94 l/s)	<b>2"</b> : 300 gpm (18.9 l/s)	<b>3"</b> : 670 gpm (42.3 l/s)	
<b>Materials</b>	<b>Body</b>	Glass-filled polypropylene			
	<b>Electrodes</b>	316 stainless steel			
	<b>Electronics Housing</b>	Power coated diecast aluminum			
	<b>Display Cover</b>	Polyethylene			
<b>Display</b>	<b>Rate</b>			<b>Total</b>	
	<b>Digits</b>	6		8	
	<b>Units</b>	Gallons/Minute, Million Gallons/Day, Cubic Feet/Second, Cubic Feet/Minute, Liters/Second, Liters/Minute, Million Liters/Day, Cubic Meters/Minute, Cubic Meters/Hour		Acre-Feet, Acre-Inch, Gallons, Gallons x 1000, Cubic Feet, Liters, Megaliters, Cubic Meters, Cubic Meters x 1000	
<b>Security</b>	Cross-drilled screws and tamper-evident seal (optional)				
<b>Power</b>	<b>WMP101</b>	10–30 Vdc @ 60 mA maximum (15 mA average) Note: Using an unregulated power supply > 18 Vdc may damage the meter due to AC line input voltage fluctuation.			
	<b>WMP104</b>	6 - AA 1.5V lithium cells, replaceable. Estimated life is 1 year depending on usage (standard) 2 - C 3.6V lithium batteries, replaceable. Estimated life is 2–4 years depending on usage (extended battery life opt)			
<b>Pulse Output Signal (WMP101 only)</b>	Current sinking pulse, opto-isolated, 32 Vdc maximum @ 10mA maximum				
<b>Pulse Rate (WMP101 only)</b>	<b>Low Frequency (-PxU)</b>	1 unit/pulse out, pulse width of 10 ms, depending on unit selection			
	<b>High Frequency (-HF)</b>	<b>1"</b>	<b>2"</b>	<b>3"</b>	
		<b>Pulse/Gal</b>	80	30	13
		<b>Pulse/Liter</b>	21.14	7.93	3.44
<b>Empty Pipe Detection</b>	Hardware/software, conductivity based				
<b>Conductivity</b>	>20 microSiemens/cm				
<b>Environmental</b>	NEMA 3X, IP64				
<b>Electrical Connection (WMP101 only)</b>	5-pin male circular connector, mates to industry standard cable				

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

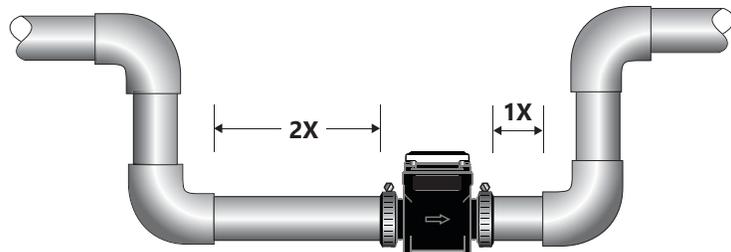
## Dimensions

Dimensions shown without the Seametrics WMP Fitting Kit.



## Straight Pipe Recommendations

Minimal straight pipe required between elbows. For other piping configurations, see instruction manual or consult factory.



## Flow Range

	1"		2"		3"	
	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec
<b>Minimum</b>	2.3	0.145	6	0.38	14	0.88
<b>Maximum</b>	110	6.94	300	18.9	670	42.3

## How to Order

MODEL	SIZE	OPTIONS	UNITS	
External Power = WMP101	1" = -102 (Flange)	Tamper-evident seal, screws, and wire = -32	<u>Rate</u>	<u>Total</u>
Battery Power = WMP104	2" = -200 (Flange)	Extended battery life = -133 (WMP104 Only)	Gal/Min = GPM	Gal = G
	3" = -300 (Flange)	*High frequency output = -HF (WMP101 Only)	Liters/Sec = LPS	Gal x 1000 = GT
		BSP fittings = -93	Liter/Min = LPM	Cubic Feet = CF
		No fitting kit = -96	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

\*See specifications for default.      Consult factory for additional units.

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**ACCESSORIES**

Remote Rate and Total Indicator (DC powered) = FT430W (-HF Option Required, WMP101 Only)

Remote Rate and Total Indicator (Loop powered) = FT440W (-HF Option Required, WMP101 Only)

1" Fitting Kit, FNPT Flange Clamps = 104235

1" Fitting Kit, BSP Flange Clamps (Male Thread) = 104241

2" Fitting Kit, FNPT Flange Clamps = 101222

2" Fitting Kit, BSP Flange Clamps (Male Thread) = 102203

3" Fitting Kit, FNPT Flange Clamps = 102073

3" Fitting Kit, BSP Flange Clamps (Male Thread) = 102204

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