WMX-SERIES
Municipal/Industrial Magmeter

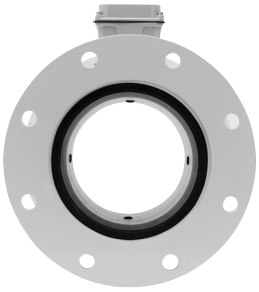
ISO 9001:2000 CERTIFIED

APPLICATIONS

- Municipal water/wastewater
- Industrial water/wastewater
- Cooling tower water treatment
- Well usage reporting

FEATURES

- Simple and economical as a mechanical meter
- No moving parts
- Built-in pulse output
- Minimal straight pipe required
- Battery or external power
- Data logger compatible
- Telemetry-ready



Unobstructed Flow

GENERAL INFORMATION

The **WMX-Series** are flanged electromagnetic flowmeters for use in 4" to 10" pipe in municipal or industrial water and wastewater applications where propeller meters have typically been used in the past. Because the WMX has no moving parts and electrodes designed to discourage fouling, this magmeter performs well and requires much less frequent maintenance in applications where debris would impede propeller meters. There is no rotor to stop turning or bearings to wear out. Minimal straight pipe requirements allow WMX-Series meters to be used in piping configurations where there is little space between the meter and an elbow.

Rate and total indication is standard on both models. Units are customer-selected and factory-set. No set-up is required.

The **WMX101** is externally powered with 7-26 Vdc at 30 mA max (see **NOTE** in Specifications). Two Lithium 3.6V "D" batteries provide auxiliary power during power failures, allowing the meter to continue recording flow rate and total without interruption for the duration of the outage. Under intermittent use, the battery life is approximately 10 years. The 20-foot power cable 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.

High frequency pulse rate (required for use with 4-20 mA converters) is standard; additional pulse rates are optional.

The **WMX104** is a battery-operated unit for use when no additional input or output is required. The Lithium 3.6V "D" batteries are replaceable with an approximate 3-year life under continuous use, depending on the duty cycle. An optional input/output cable can be installed post-factory if needed for changing applications.

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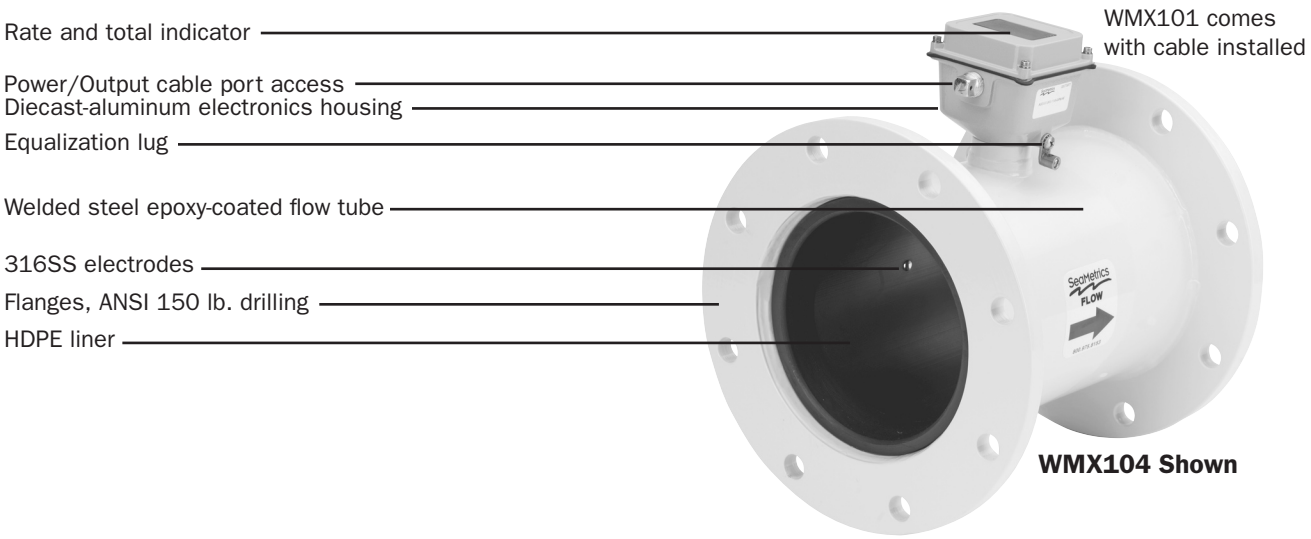
FEATURES



WMX104 Shown

SPECIFICATIONS

Pipe Sizes		4”, 6”, 8”, 10”	
Flanges		ANSI 150 lb. drilling	
Pressure		150 psi working pressure	
Temperature Range		10° F to 130° F	
Accuracy		+/-1% of reading from 10% to 100% of full scale	
		+/-2% of reading from cutoff to 10% of full scale	
Materials	**Body**	Welded steel, epoxy powder coated	
	Liner	HDPE	
	Electronics Housing	Diecast aluminum	
	Electrodes	316 stainless steel	
Display		**Rate**	**Total**
	Digits	6	8
	Units*	Gallons/Minute	Gallons x 1000
		Million Gallons/Day	Gallons x 1000
		Liters/Second	Cubic Meters
		Liters/Second	Megaliters
*Consult factory for additional units		Cubic Feet/Minute	Cubic Feet
Power		**WMX101:** 7-26 Vdc at 30 mA max, with auxiliary battery for continuous operation during power failures NOTE: Using an unregulated power supply >20 Vdc may damage the meter due to AC line input voltage fluctuation	
		WMX104: 2 Lithium 3.6V “D” batteries, replaceable, 3 year life	
Output Signal		**WMX101:** Current sinking pulse, opto-isolated, 24 Vdc at 10 mA max	
		WMX104: Pulse output available only with addition of post-factory output cable	
Empty Pipe Detection		Hardware/software, conductivity-based	
Environmental		NEMA 4X	

FLOW RANGE

	4”		6”		8”		10”	
	Gal/Min	**Liter/Sec**	**Gal/Min**	**Liter/Sec**	**Gal/Min**	**Liter/Sec**	**Gal/Min**	**Liter/Sec**
Minimum	12	.75	32	2	60	3.8	95	6
Maximum	500	31.5	1,200	75.7	2,200	138.8	3,500	220.8

SeaMetrics

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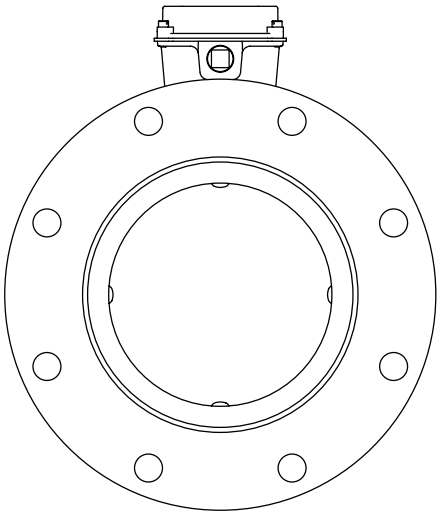
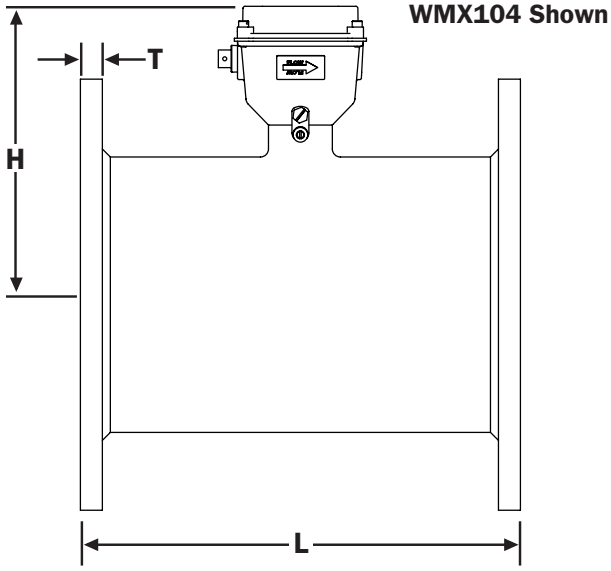
DIMENSIONS





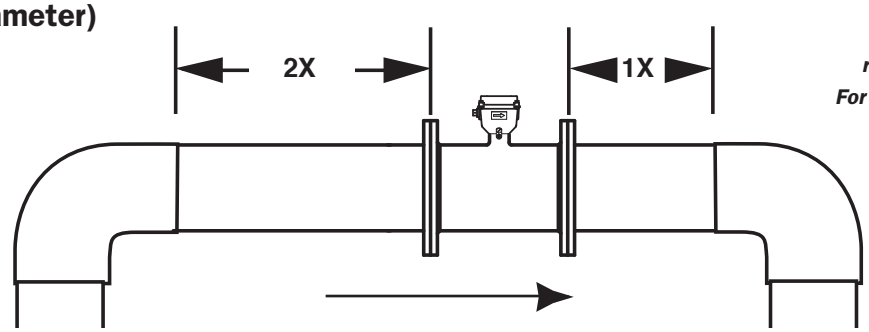
WMX104 Shown

WMX101/104

Meter Size	L		H		T		Shipping Weight	
	inch	mm	inch	mm	inch	mm	pounds	Kg
-400	9.84	250	7.0	178	.625	15.9	30	13.6
-600	11.81	300	8.1	206	.688	17.5	43	19.5
-800	13.78	352	9.1	231	.688	17.5	63	28.6
-1000	17.72	450	10.1	257	.688	17.5	86	39.0
Flanges	Standard ANSI 150 lb. drilling							

STRAIGHT PIPE RECOMMENDATIONS

(X = pipe diameter)



Minimal straight pipe required between elbows.

For other piping configurations, consult factory.

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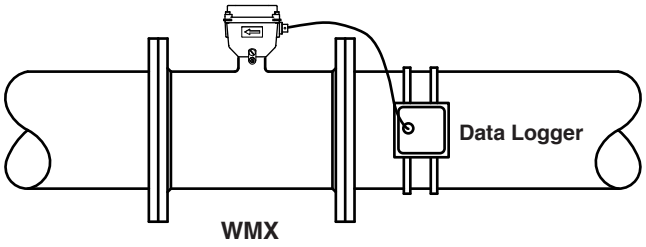
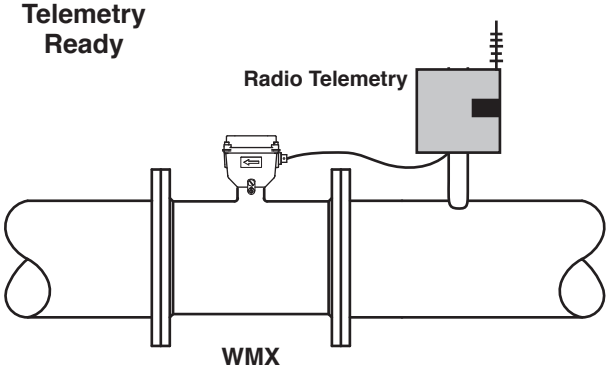
OUTPUT CAPABILITIES

Data Logger Compatible



Telemetry Ready



HOW TO ORDER

MODEL

External power **= WMX101**
Battery power **= WMX104**

SIZE

4" = **-400**
6" = **-600**
8" = **-800**
10" = **-1000**

OPTIONS

1 Pulse/10 Flow Units = **PxX**
1 Pulse/1000 Flow Units = **PxK**

NOTE: Default pulse rate is High Frequency

FLOW MEASUREMENT UNITS

RATE	TOTAL	ORDER
Gal/Min	Gal x 1000	= **GPM/GT**
Million Gal/Day	Gal x 1000	= **MGD/GT**
Liters/Sec	Cu Meters	= **LPS/CM**
Liters/Sec	Megaliters	= **LPS/ML**
Cu Ft/Min	Cu Ft	= **CFM/CF**

Consult factory for additional units

ACCESSORIES

Remote 4-20 mA (analog) signal = **AO55W**

Remote Rate and Total Indicator = **FT420W**

Remote Data Logger = **DL75W**

Post-Factory 20-ft. Power/Output Cable (WMX104 Only) = **DC30**

Dual Power Supply, 115 Vac, 12/24 Vdc = **PC42**
(Use with High Frequency pulse rate)

External Power Supply = **Consult Factory**

Replacement Battery Pack = **31126**

Grounding Ring
(not needed for most applications):

4" = **31090**
6" = **31091**
8" = **31092**
10" = **31093**

CONTACT YOUR SUPPLIER

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