

WMX-SERIES Flanged Magmeter

SO 9001:2008

FEATURES

- NSF/ANSI 61 Available (4" 12")
- Built-in pulse output for data logging or telemetry
- Minimal straight pipe required
- Continuous battery or external power

Unobstructed Flow

• IP68 submersible (option)

APPLICATIONS

- Filtration systems
- Pump stations
- Municipal water/wastewater
- Industrial water/wastewater
- Cooling tower water treatment
- Packaged plants





GENERAL INFORMATION

The **WMX-Series** are flanged electromagnetic flowmeters for use in 3" to 12" 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 has 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.

In chemical injection applications, the chemical injection point must be placed downstream of the magmeter OR far enough upstream for **complete mixing** to occur before the fluid reaches the meter.

The submersible units, -168 option, are rated IP68 (NEMA 6P) for applications where the meter may be under water up to a depth of 3 meters for prolonged periods of time.

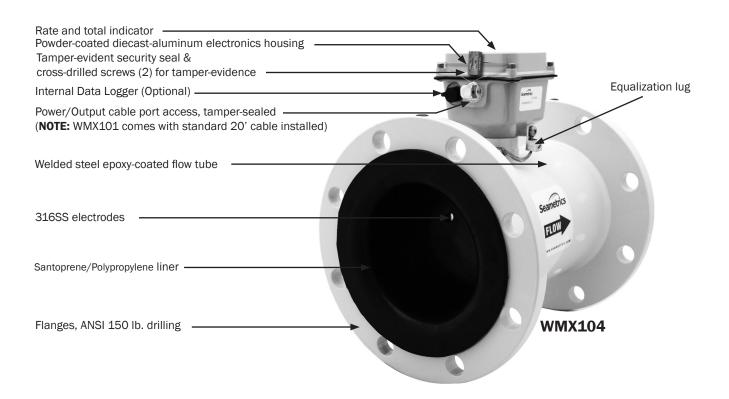
Rate and total indication are standard on both models. Units are customer-selected and factory-set. No set-up is required. The **WMX101** is externally powered with 8-32 Vdc at 30 mA max

(see **NOTE** in Specifications). Two Lithium 3.6V "AA" 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. Where external power loss is infrequent, battery life exceeds 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 pulse output is not required. Two Lithium 3.6V "D" batteries provide power and are replaceable with an approximate 1-year life under continuous use. An optional input/output cable can be installed post-factory if needed for changing applications.

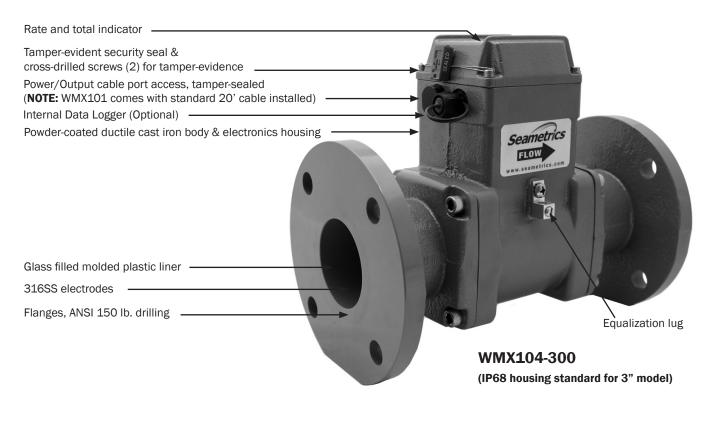
FEATURES

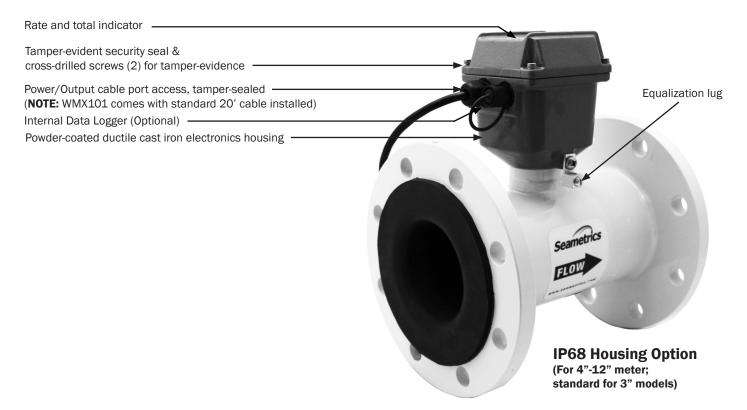




WMX-SERIES Flanged Magmeter

FEATURES Continued







SPECIFICATIONS*

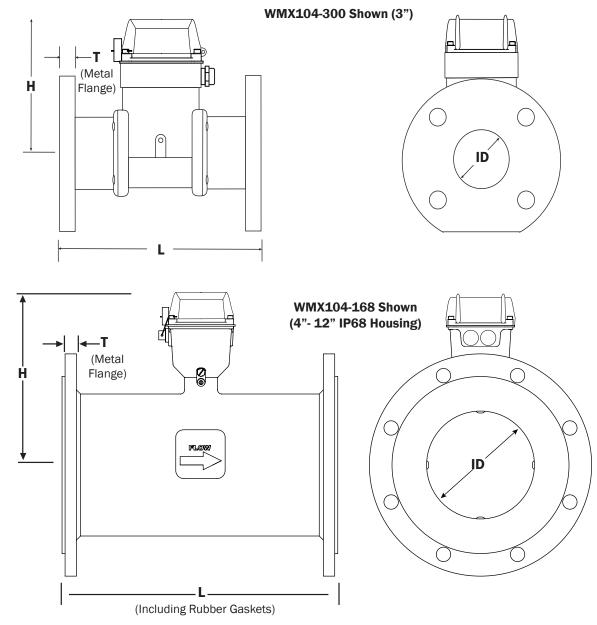
Pipe Sizes		3",4", 6", 8", 10", 12"										
Fittings		ANSI 150 lb. drilling										
Pressure		150 psi (10.3 bar) working pressure										
Temperature	Operating	10° to 130°	F (-12° to 54°	C)								
	Non-Operating	-40° to 158°	-40° to 158° F (-40° to 70° C)									
Accuracy		+/- 1% of read	ing for flow be	tween 10% to	100% of ma	x flow						
		+/- 2% of read	ing for flow fro	m cutoff to 10	% of max flo	w						
Materials	Body (3" Only)	Ductile cast ir	on, powder co	ated								
	Body (4"-12")	Welded steel,	epoxy-coated									
	Liner (3" Only)	Noryl®										
	Liner (4"-12")	Santoprene/F	olypropylene									
	Electronics Housing	Diecast alumi	num, powder-	coated (non-II	P68)	Ductile Cast Iron (IP68)						
	Electrodes	316 stainless	steel									
	O-ring (3" Only)	EPDM										
Display		Rate Total										
	Digits	5 8										
	Units	Gallon/Minute Cubic Feet/M Million Gallon	leter/Hour,	d,	Gallon, Gallon x 1000, Liter, Liter x 1000, Mega Liter, Cubic Meters, Cubic Meter x 1000, Cubic Feet, Cubic Feet x 1000							
Power		WMX101: 8-32 Vdc at 30 mA max, with auxiliary battery for continuous operation during power failures NOTE: Using an unregulated power supply >18 Vdc may damage the meter due to AC line input voltage fluctuation WMX104: 2 Lithium 3.6V "D" batteries, replaceable, 1 year life under continuous use.										
Pulse Output	Signal	WMX101: Current sinking pulse, opto-isolated, 30 Vdc at 10 mA max										
		WMX104: Pulse output available only with addition of post-factory output cable										
	Pulse Rates	High Frequency; 10 units/pulse; 100 units/pulse; 1000 units/pulse										
						1						
	High Frequency	3"	4"	6"	8"	10"	12"					
	High Frequency (pulse/gal)	3 " 25.228	4 " 16.362	6 " 6.307	8 " 3.344	10 " 2.150	12 " 1.530					
Conductivity			16.362	÷	-							
	(pulse/gal)	25.228	16.362 mens/cm	6.307	-							
Conductivity Empty Pipe De Regulatory	(pulse/gal)	25.228 >20 microSie	16.362 mens/cm tware, conduc	6.307	-							

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





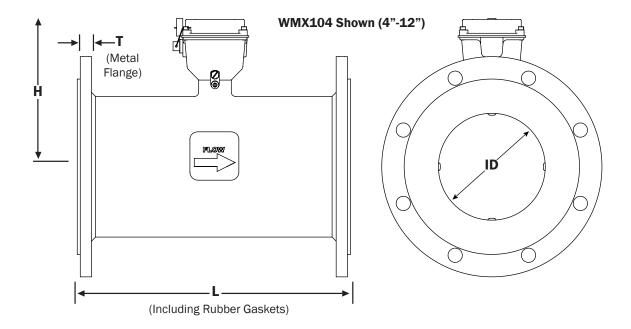
DIMENSIONS



WMX101-168/104-168 (IP68 Housing)

IP68 WMX	L		н	I	-	Г		ID	Shipping Weight IP68 Version	
Meter Size	inch	mm	inch	mm	inch	mm	inch	mm	pounds	Kg
3"	12.0	305	6.80	173	.68	17.3	2.60	66.04	41	19
4"	10.24	260	8.12	206	.62	20.9	3.12	79.25	35	16
6"	12.27	312	9.22	234	.69	23.3	5.05	128.27	50	23
8"	14.24	362	10.22	260	.69	23.3	6.44	163.58	72	33
10"	18.18	462	11.22	285	.69	23.3	8.61	218.69	128	58
12"	19.68	500	12.28	312	.81	20.6	10.55	267.97	148	67
Flanges	Standard ANSI 150 lb. drilling Cable (WMX 101) 1 lb								(101) 1 lb .	

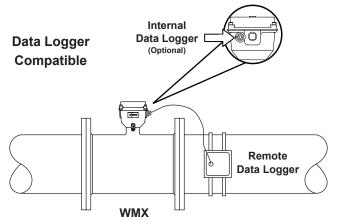


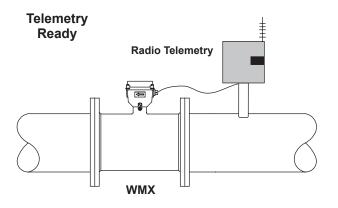


WMX101/104 (Standard Housing)

Standard WMX	L		ŀ	1		т	ID		Shipping Weight Standard	
Meter Size	inch	mm	inch	mm	inch	mm	inch	mm	pounds	Kg
4"	10.24	260	7.0	178	.62	20.9	3.12	79.25	32	15
6"	12.27	312	8.1	206	.69	23.3	5.05	128.27	47	21
8"	14.24	362	9.1	231	.69	23.3	6.44	163.58	69	31
10"	18.18	462	10.1	257	.69	23.3	8.61	218.69	125	57
12"	19.68	500	11.1	282	.81	20.6	10.55	267.97	145	66
Flanges	Standard ANSI 150 lb. drilling Cable (WMX 101)								(101) 1 lb .	

OUTPUT CAPABILITIES



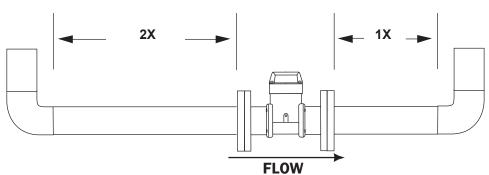




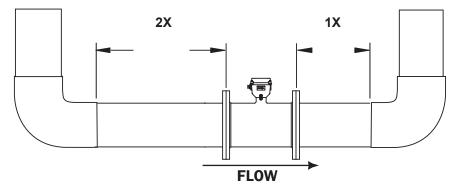
STRAIGHT PIPE RECOMMENDATIONS

(X = pipe diameter)

Minimal straight pipe required between elbows. For other piping configurations, consult factory.



(X = pipe diameter)



FLOW RANGE (3" - 12")

Meter Size	;	3"		4"	6	6"	8"		10"		12"	
	Gal/Min	Liter/Sec										
Minimum	7.5	.47	12	.75	32	2	60	3.8	95	6	130	8.2
Maximum	700	44.2	1,000	63	2,400	151.4	4,400	277.6	7,000	441.6	10,000	630.9



WMX-SERIES Flanged Magmeter

HOW TO ORDER

MODEL	SIZE	OPTIONS	FLOW MEASURE	IENT UNITS	
Battery power = WMX104	3" = -300* 4" = -400 6" = -600 8" = -800 10" = -1000 12" = -1200	High Frequency = -HF 10 Units**/Pulse = -PxX 100 Units**/Pulse = -PxH 1000 Units**/Pulse = -PxK Factory Installed Pwr/Out Cable 6m (20 ft) = -11/15 30m (100 ft) = -11/130 Factory Installed IP68 Pwr/Out Cable 6m (20 ft) = -11/15S 15m (50 ft) = -11/15S 30m (100 ft) = -11/15S 30m (100 ft) = -11/130S Internal Data Logger = -127 Serial Output = -131 IP68 Submersible = -168	RATEORDERGal/Min=Liter/Min=Liters/Sec=LPSCu Ft/Min=Cu Meter/Hr=Mil Gal/Day=Meg Lit/Day=MLD	TOTAL Gal Gal x 1000 Liter Liter x 1000 Mega Liters Cubic Meters Cu Met x 1000 Cubic Feet Cu Feet x 1000	ORDER = G = GT = L = LT = ML = CM = CMT = CF = CFT
			Consult factory for additior Any rate selection can be		otal selection

ACCESSORIES

Remote 4-20 mA (analog) signal = A055W Remote Rate and Total Indicator (Battery) = FT415W Remote Rate and Total Indicator (Powered) = FT420W Remote Data Logger = DL76W Dual Power Supply, 115 Vac, 12/24 Vdc = PC42 (Use with High Frequency pulse rate) Replacement Battery Pack for WMX101 = 101317 Replacement Battery Pack for WMX104 = 100889

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

Post-Factory 50-ft. Power/Output Cable (WMX104 Standard Housing Only) = DC35

Post-Factory 100-ft. Power/Output Cable (WMX104 Standard Housing Only) = **DC100**

Post-Factory 20-ft. Power/Output Cable (WMX104 IP68 Housing Only) = **DC30S**

Post-Factory 50-ft. Power/Output Cable (WMX104 IP68 Housing Only) = **DC35S**

Post-Factory 100-ft. Power/Output Cable (WMX104 IP68 Housing Only) = **DC100S** Grounding Rings (not needed for most applications):

 3" = 102157
 8" = 100878

 4" = 100876
 10" = 100879

 6" = 100877
 12" = 103288

CONTACT YOUR SUPPLIER