

# WMX101-104 Magnetic Flow Meter

Flanged Magnetic Meter for Full Pipe Flows



## Description

The WMX101-104 Series flanged magnetic flow meters offer the perfect replacement for your old industrial mechanical turbine or propeller flow meters. Because the WMX meters have no rotor to stop turning or bearings to wear out, they are virtually maintenance free, especially in applications where debris or sand would foul most industrial mechanical flowmeters. The WMX101-104 meters are also designed to work with minimal straight pipe run requirements, which is ideal when you have very little space between the meter and an elbow.

### Rugged Housing and Display

The WMX's electronics are housed in a rugged NEMA 4X aluminum enclosure with a 2-line LCD that clearly displays the flow rate and totalizer values. The housing is fitted with tamper-evident features. The display units are in US gallons and cannot be changed in the field. However, you may request flowmeter displays in the following units:

- Rate: mgd, cfm, lpm
- Total: c<sup>3</sup>, m<sup>3</sup>, MI

### Flexible Output and Power

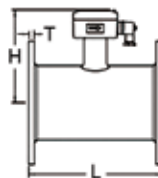
The meters have a solid state pulse output that allows connection to a variety of devices, such as a PLC, telemetry system, datalogger, or the FT420W wall mounted display. The AO55W pulse-to-analog converter can be added if a 4-20 mA signal is required.

You can power the WMX101 meters from 12-24 VDC power supplies. Their low power requirements make them ideal for solar powered applications. The WMX104 meters are battery powered. A shielded power/pulse output cable with DIN connection is included.

## Applications

Ideal for municipal and industrial water, wastewater effluent, cooling tower water, well usage reporting, irrigation water, and more.

Meter Size	L		H		T		Weight	
	in	mm	in	mm	in	mm	lbs	kg
4"	9.84	250	7.4	188	0.625	15.9	21	9.5
6"	11.81	300	8.5	216	0.688	17.5	36	16.3
8"	13.78	352	9.5	241	0.688	17.5	50	22.7
10"	17.72	450	10.4	264	0.688	17.5	75	34.1



## Features

- Simple and economical mechanical meter
- No moving parts for low maintenance and a long life
- Minimal straight pipe required
- Pulse output for loggers, PLC's, telemetry
- Solar power compatible

## Specifications

Pipe Sizes	4", 6", 8", 10"
Flow Ranges	4": 12 to 500 gpm 6": 32 to 1200 gpm 8": 60 to 2200 gpm 10": 95 to 3500 gpm
Flanges	AWWA 150 lb drilling
Pressure	150 psi working pressure
Temperature Range	10°F to 130°F (-12°C to 55°C)
Accuracy	±1% at 100% to 10% of reading ±2% at 10% of reading to cut off
Materials	Body: Welded steel, epoxy powder coated Liner: HDPE Electronics Housing: Die cast aluminum, powder coated Electrodes: 316 stainless steel
Rate Display	6-digits in units of gpm (standard), mgd, liters/minute, cfm
Totalizer Display	8-digits in units of gallons x 1000, cu feet, cu meters, megaliters
Power	WMX101: 12 to 24 VDC, 30 mA WMX104: 2 lithium 3.6VD batteries, replaceable, 3yr life (inc.)
Output Signal	Current sinking pulse, opto-isolated, 24 VDC, 10 mA max
Empty Pipe Detection	Hardware/software, conductivity-based
Environmental	NEMA 4X standard (optional short-term immersible)

## Ordering & Options

### Magnetic Flow Meters\*

Order No.	Pipe Dia.	Power
WMX101-400	4"	External
WMX101-600	6"	External
WMX101-800	8"	External
WMX101-1000	10"	External
WMX104-400	4"	Battery
WMX104-600	6"	Battery
WMX104-800	8"	Battery
WMX104-1000	10"	Battery

\* Standard units are US gallons. Please specify other units when placing order: mgd, cfm, or lpm.

### Options

Order No.	Description
FT420W	Pulse to 4-20 mA Output and Wall Mounted Display
AO55W	Blind 4-20 mA Converter



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