

# 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

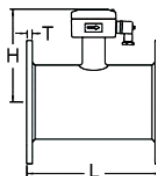
The meters have a solid state pulse output that allows connection to a variety of devices, such as a PLC, telemetry system, datalogger, or the FT420W wall mounted display. The AO55W pulse-to-analog converter can be added if a 4-20 mA signal is required.

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<br>6": 32 to 1200 gpm<br>8": 60 to 2200 gpm<br>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<br>±2% at 10% of reading to cut off  |
| Materials            | Body: Welded steel, epoxy powder coated<br>Liner: HDPE<br>Electronics Housing: Die cast aluminum, powder coated<br>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<br>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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