

# WMP101 Electromagnetic Flowmeter

Flowmeters for full-pipe municipal or industrial water and wastewater applications.



- Simple as a mechanical meter
- No moving parts for low maintenance & long life
- Minimal straight pipe required
- Built-in rate & total indicator
- Corrosion resistant

## Specifications

*Pipe Sizes:* 2 inch full port

*Flow Range:* 6-300 GPM (0.375-18.9 l/s)

*Fittings:* Flang clamps

*Pressure:* 150 PSI or 10.3 bar working pressure @ 70° F

*Temperature Range:* 10 to 130° F (-12 to 54° C)

*Accuracy:*

±1% of reading from 100% to 10% of reading

±3% of reading from 10% of full scale to cut off

*Materials:*

Body: Glass-filled polypropylene

Electronics Housing: Die cast aluminum, powder coated

Electrodes: 316 stainless steel

Display cover: polyethylene

*Rate Display:* 6-digits in units of GPM (standard), CFM, Liters/second, or Liters/minute

*Totalizer Display:* 8-digits in units of Acre-feet, Acre-Inch, Gallons x 1000, CU Feet, CU Meters, or Megaliters

*Security:* Cross-drilled screws and tamper-evident seal (Optional)

*Power:*

101: 10-30 VDC @ 60 mA max (0.5 mA average). NOTE: Using an unregulated power supply >18 Vdc may damage the meter due to AC line input voltage fluctuation.

104: 6 AA Alkaline cells, replaceable, 1 year life with meter in use, 3 years dry

*Output Signal:* Current sinking pulse, opto-isolated, 24 VDC @ 10 mA max, 1 gal/pulse out, 1 liter/pulse dependign on unit selection, high frequency output optional

*Empty Pipe Detection:* Hardware/software, conductivity-based

*Environmental:* NEMA 4X standard, -40 to 176° F (-40 to 80° C) storage

*Electrical Connection (WMP101 only):* 5 pin male circular connector, mates to industry standard cable

*Dimensions:* 5.5x6x4.6 inch

## Description

The WMP-Series are a full-bore, plastic-bodied electromagnetic flowmeters designed for flow and usage monitoring applications in 2" pipe. The polypropylene flow tube offers corrosion resistance to a wide range of chemicals. The light weight and clamp flanges allow the meter to be easily installed or removed from the pipe for inspection. There are multiple adapters available to allow the meters to fit into a wide variety of pipe mounting configurations.

With no moving parts, the flowmeters permit unobstructed flow, minimizing flow disturbances and hence, straight pipe requirements. The WMP-Series meters can be used in piping configurations where there is little space between the meter and an elbow or valve. The WMP-Series, like other electromagnetic flowmeters, are resistant to wear from sand and debris found in ground or surface water. Since there are no bearings or propeller to wear out on the meters, downtime and maintenance and repair costs are kept to a minimum. Because the meters have no mechanical parts in the flow stream, the meter tolerates high flows without damage.

The WMP-Series meters are used for tracking flow rate and total flow in usage monitoring applications, for instance, in compliance with regulatory requirements. These would include wells, industrial wastewater, heap leach mining discharge, cooling tower deduct metering, turf and landscape applications, and other water reclamation operations. In the event of DC power loss, or when changing the battery, the meter is designed to retain the internal settings and flow total.

## Options and Accessories

**WMP101-200** 2 inch Electromagnetic Flowmeter

**WMP104-200** 2 inch Flowmeter, Battery Powered

NOTE: The Electromagnetic Flowmeters listed above are set up with a rate of US GPM and a total of cubic feet. These units cannot be changed in the field. Other rate and total display units such as CFM, Liters/minute, and Liters/second are available, see specifications above. Please specify rate and totalizer display units when you order.

WMP Electromagnetic Flowmeter Fitting kit

WMP101 Power cable

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