



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: 1 or 2 inch full port

Flow Range:

1 inch: 2.3-110 GPM (0.145-6.94 l/s)

2 inch: 6-300 GPM (0.375-18.9 l/s)

Fittings: 1 inch NPTF, 2 inch flange clamps with optional 2 inch NPTF fitting kit

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 depend 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:

1 inch: 4.3x5.38x5.5 inch (11x13.67x14 cm) (WxLxH)

2 inch: 4.63x6.03x5.5 inch (11.76x15.32x14 cm) (WxLxH)

Options and Accessories

WMP101-100 1 inch Electromagnetic Flowmeter

WMP101-200 2 inch Electromagnetic Flowmeter

WMP104-100 1 inch Flowmeter, Battery Powered

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.

Description

The WMP-Series are a full-bore, plastic-bodied electromagnetic flowmeters designed for flow and usage monitoring applications in 1 or 2 inch pipes. 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.

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