



## Multi-options for the multi-tasker.

Is this you? Do the decisions on both potable water and wastewater cross your desk? Badger Meter can help simplify your job. Now, we've got an FM approved, M-Series™ mag meter line to go along with our Magnetoflow® Mag Meters. The Badger® M-Series Model M-3000 can handle all your wastewater and raw water needs, while you can continue to count on our full line of innovative microprocessor based mag meters for other applications. One company. All the metering solutions you need.



technology delivered.  
[www.badgermeter.com](http://www.badgermeter.com)



## Model PRIMO® Amplifier Magnetoflow® Mag Meter

### Features

High accuracy performance:  
99.75% to 100.25%

Wide flow range

Bi-directional (2 totalizers) flow  
measurement capability

Smart, micro-processor based  
electronics

Back-lit LCD display with four lines

Password protection

Special laying lengths available  
on request

### Benefits

Exceeds AWWA accuracy standards for  
mechanical meters

Exceeds operating characteristics of turbine and  
propeller meters

Suitable for inter-city billing and other bi-directional flow  
applications

- Simple to operate
- AMR and SCADA ready standard outputs
- NEMA 4X enclosure

Simultaneous display of:

- Flow rate
- Forward totalizer
- Reverse totalizer
- Internal error messages

Security against unwanted program changes

- Eliminates special piping arrangements
- Facilitates existing meter replacements

### Typical Applications:

- Rural, Commercial and Industrial applications
- Flow monitoring in distribution lines
- Well pump stations
- Replacement of propeller meters
- Inter-City billing
- Well water and Reclaimed water systems (solids in suspension)
- Treatment plants
- Wastewater treatment plant applications where FM approved product not required

# 2 heads are better than 1.



Badger Magnetoflow® Mag Meters have been the ideal solution for potable water metering. Now, we've got an FM approved solution for wastewater, too. The new Badger® M-Series™ Model M-3000 Mag Meter is FM approved and features through-the-glass programming for ease of use. You could say we can meet all of your metering needs, coming and going. Contact us for all the details on our expanded line of Mag Meters.

### Technology Features:

Completely open Flow Tube design

Works with most solids in the liquid

High accuracy: +/- 0.25 or 0.5%  
99.75% to 100.25%

Wide flow range 0.1 to 39.4 ft/sec  
velocity for all sizes

Not highly affected by pipe disturbances

### Technology Benefits:

- No pressure loss = less pumping energy required
- No moving parts = no wear, no maintenance
- No "Water Hammer" issue

- Suitable for well water and reclaimed water systems
- Sand, gravel or debris do not affect meter performance
- No strainer installation necessary.

- Exceeds AWWA accuracy standard for conventional meter technologies
- Turbine meters: +/- 1.5% - 98.5% to 101.5%
- Propeller meters: +/- 2.0% - 98% to 102%

- Able to capture wider range of flow than other technologies

- Installation Requirements:
  - Only 3 diameters of straight pipe upstream and 2 diameters downstream
  - Minimizes meter vault size
  - Reduces installation costs



## Model M-3000 M-Series™ Mag Meter

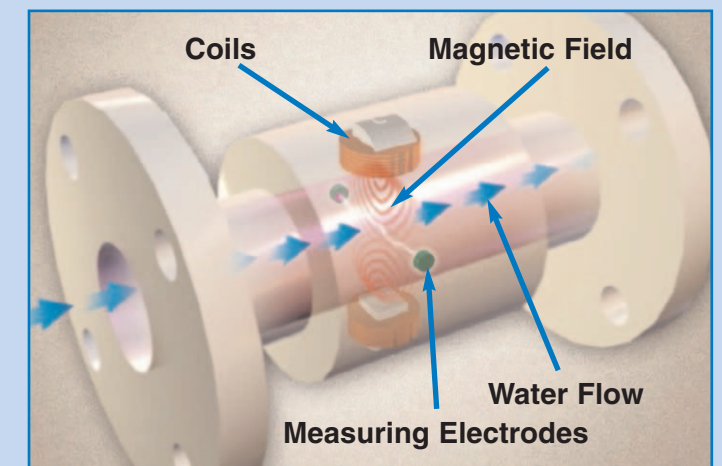
In addition to the Primo's features and benefits, the M-3000 offers these added features:

### Features

- FM approved for Class 1, Division 2
- Rotatable display for vertical and horizontal mounting
- Programmable multiple sampling rates (excitation frequency)
- Optional 24VDC power input
- User friendly screen number programming and set-up
- CE and FCC compliant

### Applications

- Wastewater treatment plants
- Water treatment plants
- Raw water pumping stations



### Principle of Operation

#### Faraday's Law:

"A conductor moving through a magnetic field will induce an electromotive force proportional to the velocity of the conductor."

# PRIMO® and Model M-3000 Features & Specifications

	PRIMO	M3000
<b>Meter Sizes</b>	1" - 54" (DN sizes)	1" - 24" (DN sizes)
<b>Hard Rubber Liner</b>	YES	YES
<b>PTFE Liner</b>	YES	YES
<b>24VDC Power Option</b>	NO	NO
<b>NEMA 6P Option (submersible)</b>	YES	YES (Std.)
<b>Alloy C or Stainless Steel Electrodes</b>	YES	YES
<b>Programmable Excitation Frequency</b>	NO	YES
<b>Password Protection</b>	YES	YES
<b>Self Diagnostics</b>	NO	YES
<b>Rotatable Display</b>	NO	YES
<b>Cable Lengths (Remote Configuration)</b>	up to 500 feet	up to 100 feet
<b>NSF Listed</b>	YES	YES

