

# SPECIFICATION SHEET BATTERY POWERED ELECTROMAGNETIC FLOW METER

#### **DESCRIPTION**

McCrometer's award-winning Mc Mag³000™ provides growers and irrigators with a new alternative for flow measurement. With a 5-year expected battery life (3-year battery warranty) and saddle mount design, the Mc Mag³000 delivers the dependability and ease-of-installation McCrometer has provided to the agricultural market for nearly 60 years. The electromagnetic sensor offers accuracy as good as  $\pm 1\%$  while being designed to naturally shed debris.

The meter is available to fit a common range of agricultural line sizes, from 4" to 12" diameter pipe.

The innovative design of the Mc Mag<sup>3000</sup> saddle mount meter features a multi-point angled sensor that sheds debris, making it ideal for use in surface water, livestock waste lagoons, and other dirty water applications.

Using electromagnetic technology to measure the water flow, the Mc Mag<sup>3000</sup>'s precision sensor corrects for shifting velocity in the pipe by constantly obtaining the mean velocity from its multiple electrodes. The result is a highly accurate (as low as +/-1%) flow meter.

The meter combines an innovative saddle, precision sensor, and a battery powered integrated electronic converter package with data logging capability to provide accurate flow measurement for full-pipe flow monitoring applications.

The integrated electronic converter is secured with tamper resistant screws to protect against unauthorized access. The meter offers flow rate and total water used and a 5-year expected battery life (3-year battery warranty). The Mc Mag<sup>3000</sup> features three 3.6V lithium-thionyl chloride (Li-SOCl<sub>2</sub>) D size batteries, with one serving as back-up power. The main power batteries are easily replaced in the field. Pulse and 4-20mA output are available for remote meter reading or SCADA. The Mc Mag<sup>3000</sup> is McCrometer CONNECT wireless system compatible, which allows users to access flow data by simply logging on to the Internet. This eliminates costly manual meter reading.

#### INSTALLATION

The Mc Mag<sup>3000</sup> offers hassle-free installation, even in tight spaces. No flanges or costly welding is involved. Users simply cut a 3" diameter hole in the top of their pipe and slide the sensor into the hole, and then cinch the meter onto the pipe using the Factory provided U-straps.

The meter can be mounted in a horizontal or vertical position with a full pipe of water. A minimum of three pipe diameters upstream of a flow disturber and one pipe diameter downstream from the meter are required to ensure optimal accuracy of  $\pm 2\%$ . A  $\pm 1\%$  accuracy is available with a Factory consultation prior to order.

## **APPLICATIONS**

- Irrigation
- Center Pivot Systems
- Well Monitoring
- Water Distribution
- Chemigation
- Livestock Waste Lagoons
- Surface Water
- Golf Courses and Park Management





4", 6", 8", 10", 12"  Saddle mount  150 psi (10.3 bar) working pressure  ± 2% with default calibration ± 1% with custom Factory calibration  Minimum conductivity of 50μS/cm, for lower conductive fluid consult Factory.  Hardware/Software, conductivity-based (optional)  Optional shielded cable for 10-32VDC/4-20 mA output Optional shielded cable for pulse out 3D Upstream / 1D Downstream
150 psi (10.3 bar) working pressure  ± 2% with default calibration ± 1% with custom Factory calibration  Minimum conductivity of 50μS/cm, for lower conductive fluid consult Factory.  Hardware/Software, conductivity-based (optional)  Optional shielded cable for 10-32VDC/4-20 mA output Optional shielded cable for pulse out
± 2% with default calibration ± 1% with custom Factory calibration  Minimum conductivity of 50μS/cm, for lower conductive fluid consult Factory.  Hardware/Software, conductivity-based (optional)  Optional shielded cable for 10-32VDC/4-20 mA output Optional shielded cable for pulse out
± 1% with custom Factory calibration  Minimum conductivity of 50μS/cm, for lower conductive fluid consult Factory.  Hardware/Software, conductivity-based (optional)  Optional shielded cable for 10-32VDC/4-20 mA output Optional shielded cable for pulse out
Hardware/Software, conductivity-based (optional)  Optional shielded cable for 10-32VDC/4-20 mA output Optional shielded cable for pulse out
Optional shielded cable for 10-32VDC/4-20 mA output Optional shielded cable for pulse out
Optional shielded cable for pulse out
3D Upstream / 1D Downstream
<ul> <li>2-Line LCD display (no backlight), 16 characters per line</li> <li>Non-volatile memory</li> <li>Anti-reverse totalizer (standard)</li> <li>Total (to 9 digits of precision)</li> <li>Flow Rate and Velocity (to 5 digits of precision)</li> <li>Two alarms: low battery and empty pipe (optional)</li> <li>To preserve battery life, a push-button on the housing activates the display.</li> </ul>
5 Rate, 9 Total
US gallons, US gallons x1000, US gallons x1,000,000, cubic inches, cubic feet, cubic feet x1000, cubic centimete cubic decimeters, milliliters, liters, deciliters, hectoliters, kiloliters, megaliters, cubic meters, cubic meters x1000 acre feet, acre inches, imperial gallons, imperial gallons x1000, imperial gallons x1,000,000, standard barrels, oi barrels, and miner inch days.  Rate scales: seconds, minutes, hours, and days.
Tate seales, seconds, minutes, modify and days.
Standard: three 3.6V lithium-thionyl chloride (Li-SOCI <sub>2</sub> ) D size batteries. Batteries are field replaceable
Linear power supply 10-35VDC, 2.4W
Five-year expected battery life (three-year battery warranty)
Tive year expected battery me (times year battery warranty)
-4° to 140°F (-20° to 60°C) sensor
-40° to 149°F (-40° to 65°C)
<b>Note:</b> During freezing conditions and when meter is not in use, sensor must be removed from pipe and stor in dry conditions. <i>NOTE: Damage to the sensor caused by allowing the sensor freeze in the pipe is not covere by the warranty.</i>
150 PSI
IP68 (submersible sensor)
Digital pulse (open collector) output for volumetric and/or alarm  Battery power only: 1 pulse output maximum  DC powered version: 2 pulse outputs available
4-20mA (not galvanically separated from the power supply). DC powered option only.
<ul> <li>Data Logger - included as standard with five years of data storage at default (12hr) interval. (Cable sold separately)</li> <li>Epoxy coated carbon steel flanged spool piece</li> <li>DC power w/battery backup: (Pulse &amp; 4 20mA Out)</li> <li>Annual verification / calibration</li> <li>Stainless Steel ID tag</li> </ul>
Fusion bonded epoxy coated stainless steel (316)
Stainless steel (316)
Stainless steel (304)
Stainless steel (304)
IP-67 Certified diecast aluminum, powder coated enclosure w/ tamper resistant seal, 6½" x 6½" x 4³/s" tall
SBR rubber D-ring

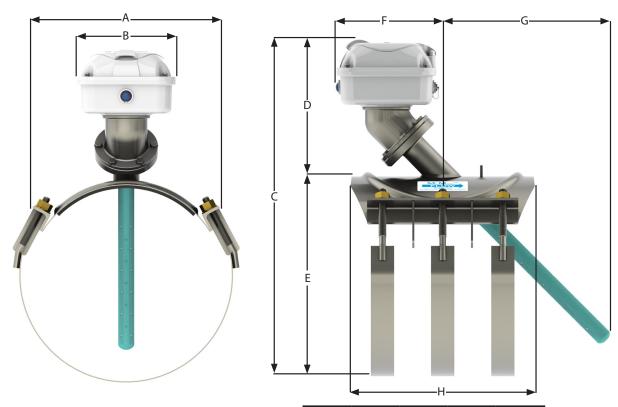


# Mc Mag<sup>3000</sup> Part Structure

METER SIZE   4" Meter   04   6" Meter   06   8" Meter   08   10" Meter   10   12" Meter   12   12   12   12   13.09   14.15"   15.15"   3   15.50   5.89   1   15.15"   3   15.50   5.89   1   15.15"   3   15.50		60	<b>\/\/</b>		24					
## Meter 6" Meter 08		G3	XX	-	X	-		_		
## Meter 6" Meter 08										
6" Meter 8" Meter 08 10" Meter 10 10" Meter 12										
8" Meter 10" Meter 10 12" Meter 12  TSIDE DIAMETER (O.D.) RANGE MUST SPECIFY: X  3.90 - 4.14" 0 4.35 - 4.64" 1 4.65 - 4.90" 2 4.91 - 5.15" 3 5.50 - 5.89 1 6" METER 5.90 - 6.75 2 6.76 - 7.49 3 7.50 - 7.79 3 8" METER 7.80 - 8.93 4 8.94 - 9.19 5 9.70 - 10.94 6 10.95 - 11.29 7 11.30 - 11.69 7 12" METER 11.70 - 12.94 8 12.95 - 13.39 9  POWER / OUTPUT OPTIONS  Battery Power / Pulse Output 1 0 0 DC Power (10-32v) / 4-20mA Output 2 0 0 0 DC Power (10-32v) / 4-20mA Output 2 0 0 0 DC Power (10-32v) / 4-20mA Output 2 0 0 0 Gft (Open Leads - Hardwired only) [Default] 1 25ft (Open Leads) 2 50ft (Open Leads) 3  PULSE CABLE LENGTH OPTIONS  No Cable - Output configured [Quick Connect Only] 0 Gft (Open Leads - Hardwired only) [Default] 1 25ft (Open Leads) 3 25ft (7-Pin Male Connector for Telemetry Output 4 50ft (7-Pin Male Connector for Telemetry Output 5 OUTPUT CABLE TERMINAL OPTIONS Open Leads (Hardwired) Quick Connection Cable Terminals (25 and 50 ft length only on meter mount converter) 2 TA LOGGER Standard Feature										
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## Mc Mag<sup>3000</sup> DIMENSIONS AND WEIGHTS



	Nominal Pipe Size*					
Max/Min Flow And Weight	4"	6"	8"	10"	12"	
Maximum Flow U.S. GPM	600	1350	2350	3700	5300	
Minimum Flow U.S. GPM	40	90	150	240	350	
Approximate Shipping Weight lbs.	23	26	29	30	32	

	Nominal Pipe Size						
Dimensions (Inches)	4"	6"	8"	10"	12"		
А	7.50	13.00	12.50	13.25	15.25		
В	6.44	6.44	6.44	6.44	6.44		
С	13.50	15.50	17.50	19.75	21.75		
D	8.90	8.90	8.90	8.90	8.90		
E	4.50	6.625	8.625	10.75	12.75		
F	7.37	7.37	7.37	7.37	7.37		
G	3.56	4.93	7.32	8.38	10.77		
Н	8.00	12.00	12.00	12.00	12.00		

All Dimensions based on ANSI B36.10 Nominal Pipe

<sup>\*</sup> Note: Meters can be installed in Water Specialties bolt saddle meter cutouts for 6" meters and 8"-12" meters as well as in McCrometer bolt on saddle meter cutouts for 12" OD pipe. The meter CANNOT be installed in Water Specialties bolt on saddle meter cutouts for 4" meters. If replacing an existing meter, consult Factory.

