



Benefits

The McMag²⁰⁰⁰ provides farmers and irrigators an affordable and easy-to-read mag with minimal maintenance and little to no downtime. As the only mag meter on the market with a price tag comparable to a propeller meter, the McMag²⁰⁰⁰ has a low cost of ownership without compromising durability and accuracy. The McMag²⁰⁰⁰ is portable, making it an efficient purchase for users with multiple irrigation lines. This mag's familiar saddle-style form and streamlined functionality allows for in-field programmability and serviceability, guaranteeing minimal downtime and maximum control. It's the hassle-free, wallet-friendly, works-when-you-need-it-to, simple to use, mag meter, only from McCrometer.

Designed for Accuracy, Built to Last

- Durable, built with a time-tested rugged design
- Consistent and repeatable measurements
- Versatile, with a wide range of applications

Installation

The McMag²⁰⁰⁰ 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 five pipe diameters upstream of a flow disturber and two pipe diameters downstream from the meter are required to ensure optimal accuracy of $\pm 2\%$.



KEY FEATURES

- +/- 2% accuracy
- · Easy in-field installation
- Low maintenance
- 5-year full warranty
- Low cost of ownership
- "Do-it-yourself" programmability
- Minimal pipeline intrusion

APPLICATIONS

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





Description

The McMag^{2000™} provides growers and irrigators with a new alternative for flow measurement. With a 5-year meter warranty, a 5-year battery life, and saddle mount design, the McMag²⁰⁰⁰ delivers the dependability and ease-of-installation McCrometer has provided to the agricultural market for over 65 years. The electromagnetic sensor offers accuracy as good as ±2%.

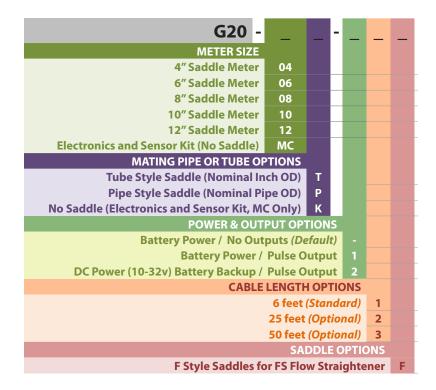
The meter is available to fit a common range of agricultural line sizes, from 4" to 12" diameter pipe or tube.

The innovative design of the McMag²⁰⁰⁰ saddle mount meter offers modular design to ensure McMag²⁰⁰⁰ continues to have low cost of ownership, the main components can be easily and affordably updated in field without downtime.

The meter combines a saddle, precision sensor, and a battery powered integrated electronic converter package 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 warranty. The McMag²⁰⁰⁰ features two 3.6V lithium-thionyl chloride (Li-SOCl₂) D size batteries, and a back-up battery pack. The main power batteries are easily replaced in the field. Pulse output is available for remote meter reading or SCADA.

Part Number Structure







Flow Meter Specifications

Description and Operating Specifications							
	Volumetric flow in filled flow conduits 4" to 12" utilizing saddle installed sensor. Flow						
	indication in English Standard or Metric units.						
Method	Electromagnetic						
Pipe Sizes and Flow Rates	4" 40 - 600 gpm						
	6" 90 - 1350 gpm						
	8" 150 - 2350 gpm						
	10" 240 - 3700 gpm						
	12" 350 - 5300 gpm						
Body Style	Saddle mount						
Pressure	150 psi (10.3 bar) working pressure						
Accuracy	±2% accuracy, or ±0.25% of standard full scale flow						
Empty Pipe	Hardware/Software, conductivity-based						
Detection							
Electrical	Optional shielded cable for 10-35VDC						
connections	Optional shielded cable for pulse out						
Pipe Run Requirements	5D Upstream / 2D Downstream						
Retrofit	Available using Mc® Propeller saddle						

Display and Measurement

Units

 Large LCD disp 	lay (no l	backlight)
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Non-volatile memory

• Anti-reverse totalizer (standard)

• Total (to 9 digits of precision)

• Flow Rate and Velocity (to 5 digits of precision)

· Low battery and empty pipe indication

· Opening lid activates display

Digits 5 Rate, 9 Total

Gallons per minute Imperial gallons per minute Cubic feet per minute Miner's inch (9G) Million gallons per day Barrels per minute (55G) Cubic feet per second Miner's inch (11.22G) Barrels per hour (55G) Megaliters per day Acre-feet per day Barrels per day (55G) Liters per second Kiloliters per hour Barrels per minute (42G) Cubic meters per hour Liters per hour Barrels per hour (42G) Cubic meters per minute Barrels per day (42G)

Liters per minute
Gallons per hour

Power

Battery Standard: two 3.6V lithium-thionyl chloride (Li-SOCI₂) D size batteries. Batteries are field replaceable. Unit contains backup battery.

DC Power Linear power supply 10-35VDC, 2W

Battery Life Five-year expected battery life, five-year battery warranty.

Note: Battery expectancy is with standard configuration





Flow Meter Specifications

Environmental

Operating **Temperature** Storage

10° to 140°F (-12° to 60°C) sensor

Temperature

-20° to 149°F (-29° to 65°C)

Operating Pressure Water 150 PSI

Impermeability

IP67

Outputs

Pulse Output

One digital pulse (open collector) output for volumetric

Options and Accessories

- · Epoxy coated carbon steel flanged spool piece
- DC power w/battery backup
- Annual verification / calibration
- · Stainless Steel ID tag
- · Boot cover

Materials

Sensor Body Electrodes Saddle Mount **Saddle Hardware**

HDPE plastic

Stainless steel (316) Stainless steel (304) Stainless steel (304)

Electronic Housing

IP-67 Certified diecast aluminum, powder coated enclosure w/ tamper resistant seal, 6" x 6" x 5" tall

Saddle Gasket

Neoprene

Boot Cover

EPDM rubber optional

Warranty

Meter

5-year standard warranty

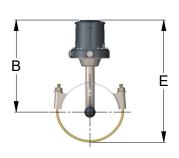
Battery

5-year warranty

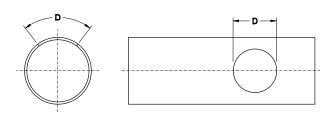




Dimensions and Weights







	DIMENSIONS					
Meter and Nominal Pipe Size	4	6	8	10	12	
Minimum Flow U.S. GPM	40	90	150	240	350	
Maximum Flow U.S. GPM	600	1350	2350	3700	5300	
Approx. Shipping Weight-Ibs.	13	15	18	20	24	
A (inches)	5 1/2	9	9	9	9	
B (inches)	10 3/4	13 1/4	13 1/4	13 1/4	14 1/4	
C (inches)	7	8	8	9 1/2	9 1/2	
D (inches)	3	3	3	3	3	
E (inches)	13 1/4	16 1/2	17 1/2	19 1/2	21 1/2	

REQUIRED ORDERING INFORMATION: Pipe O.D. and I.D. are required for all saddle meter orders.



Representantes / Distribuidores Exclusivos

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