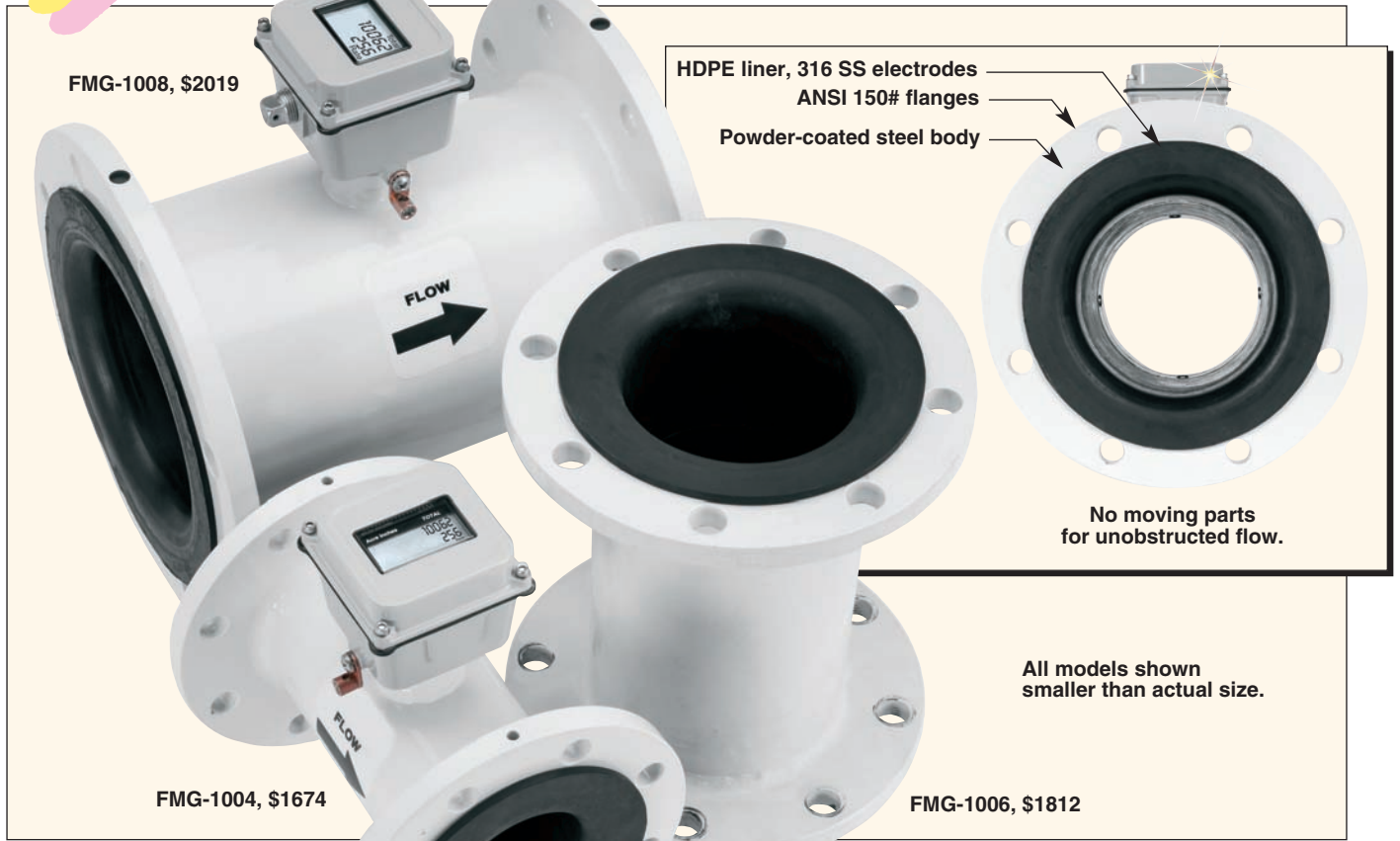




MUNICIPAL/INDUSTRIAL MAGMETER



FMG-1008, \$2019

HDPE liner, 316 SS electrodes
ANSI 150# flanges
Powder-coated steel body

No moving parts
for unobstructed flow.

All models shown
smaller than actual size.

FMG-1004, \$1674

FMG-1006, \$1812

FMG-1000 Series
Starts at

\$1674



- ✓ Simple and Economical as a Mechanical Meter
- ✓ No Moving Parts
- ✓ Built-In Pulse Output
- ✓ Minimal Straight Pipe Required
- ✓ Solar Power and Data Logger Available
- ✓ Built-In Pulse Output for Data Logging or Telemetry

The FMG-1000 Series comprises flanged electromagnetic flowmeters for use in municipal or industrial water and wastewater applications in which propeller meters have typically been used in the past. With no moving parts and electrodes designed to discourage fouling,

the FMG-1000 magmeters require much less frequent maintenance in applications in which debris or sand would impede propeller meters. There is no rotor to stop turning or bearings to wear out. Minimal straight-pipe requirements allow use of FMG-1000 Series meters in piping configurations involving little space between the meter and an elbow.

The FMG-1000 works off 12 to 24 Vdc power. Low power requirements also make it ideal for solar and comparable power sources. Rate and total indication is standard, as is a solid state pulse output, which allows connection to a data logger.

The FMG-1000-MAW pulse-to-analog converter can be added if a 4 to 20 mA signal is needed. A shielded power/pulse output cable with DIN connection is included with the meter. The display housing is fitted with tamper-evident features.

SPECIFICATIONS

Pipe Sizes:

10, 15, 20, 25 cm (4, 6, 8, 10")

Flanges: ANSI 150#

Pressure: 150 psi

Temperature Range:

-12 to 54°C (10 to 130°F)

Accuracy:

±1% at 100% to 10% of reading;

±2% at 10% of reading to cut off

Materials:

Body: Welded steel, epoxy powder coated

Liner: HDPE

Electronics Housing:

Die-cast aluminum, powder coated

Electrodes: 316 SS

Rate Display:

Digits: 6

Units: Gallons/minute, million

gallons/day, liters/second,

cubic feet/minute

Total Display:

Digits: 8

Units: Gallons x 1000, cubic feet,

cubic meters, megaliters

Power: 12 to 24 Vdc, 30 mA

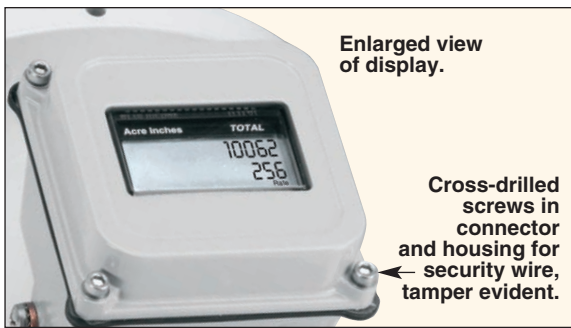
Output Signal: Current sinking pulse, opto-isolated, 24 Vdc, 10 mA max

Empty Pipe Detection:

Hardware/software, conductivity-based

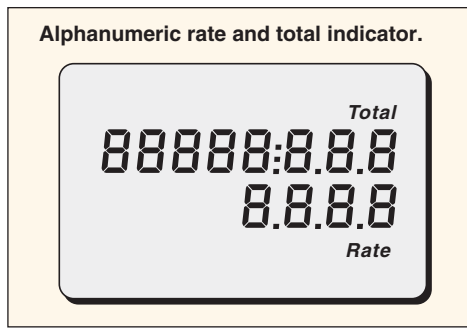
Environmental: NEMA 4 (IP65)

standard



Enlarged view of display.

Cross-drilled screws in connector and housing for security wire, tamper evident.



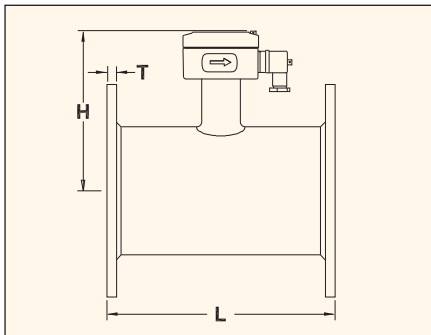
Alphanumeric rate and total indicator.

Solar Power Kit

The optional FMG-1000-SK solar panel can provide up to 5 W (15V, 330 mA) power for the FMG-1000 magmeters, for remote metering applications where electricity is either unavailable for impractical.

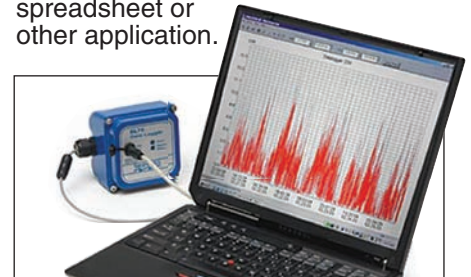
It can also provide a backup power supply for uninterrupted operation. Designed for use with a standard 12 V 50, Ah deep cycle battery (user supplied), the FMG-1000-SK can provide up to a 90 day power supply backup (not shown).

formats. With the software, you can manage up to 4 (or 16) data loggers, display average and min/max flow rates for any selected timeframe. You can zoom in to graph a time period, and show daily totals. You can also export your data in a csv or txt file, for use in an Excel spreadsheet or other application.

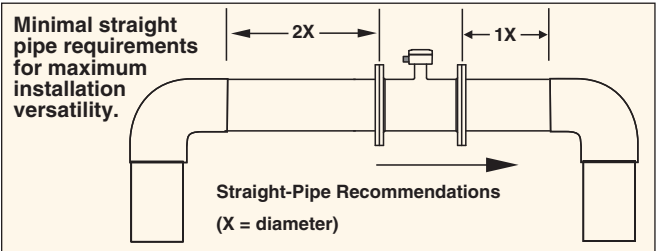


Data Logger Option

The FMG-1000-DLA data logger is battery powered, and can record up to 3 years data (sampling rates from 15 sec to 24 days). When used with the FMG-1000-DL4 (or -DL16) software (required, sold separately), the FMG-1000-DLA retrieves your data for storage, viewing and analysis, in several



Meter Size	L mm (in)	H mm (in)	T mm (in)	Weight kg (lb)
4"	250 (9.84)	188 (7.4)	15.9 (0.625)	9.5 (21)
6"	300 (11.81)	216 (8.5)	17.5 (0.688)	16.3 (36)
8"	352 (13.78)	241 (9.5)	17.5 (0.688)	22.7 (50)
10"	450 (17.72)	264 (10.4)	17.5 (0.688)	34.1 (75)



Minimal straight pipe requirements for maximum installation versatility.

Straight-Pipe Recommendations (X = diameter)

MOST POPULAR MODEL HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Min GPM	Max GPM	Size: cm (in)	Description
FMG-1004	\$1674	12	500	10 (4)	4" flanged electromagnetic flowmeter
FMG-1006	1812	32	1200	15 (6)	6" flanged electromagnetic flowmeter
FMG-1008	2019	60	2200	20 (8)	8" flanged electromagnetic flowmeter
FMG-1010	2335	95	3500	25 (10)	10" flanged electromagnetic flowmeter

Accessories

Model No.	Price	Description
FMG-1004-GR	\$121	4" single flange grounding ring
FMG-1006-GR	152	6" single flange grounding ring
FMG-1008-GR	181	8" single flange grounding ring
FMG-1010-GR	230	10" single flange grounding ring
FMG-1000-SK	435	Solar power kit
FMG-1000-MAW	370	4 to 20 mA output module wall mount
FMG-1000-DLA	301	Data logger, wall mount (software and cable required)
FMG-1000-CABLE	71	Data logger to PC cable (1 required for download)
FMG-1000-DL4	100	Data logger software for up to 4 channels
FMG-1000-DL16	310	Data logger software for up to 16 channels
FW-202	250	Reference Book: The Consumer Guide to Magnetic Flowmeters

Comes complete with operator's manual.

Ordering Examples: FMG-1006, 6" flange mounted magmeter with FMG-1000-DLA, data logger, FMG-1000-CABLE, data logger to PC cable, two FMG-1006-GR, grounding rings, and FMG-1000-DL4, software for data logger, \$1812 + 301 + 71 + (152 x 2) + 100 = \$2588.
 FMG-1004, 4" flange mounted magmeter with two FMG-1004-GR, grounding rings, \$1674 + (121 x 2) = \$1916.

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• Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485, Ethernet and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

• Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Pressure Transmitters, Strain Gauges, Torque Transducers, Valves

• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters