

LOW-FLOW MAGNETIC FLOWMETER

FMG201 Series



- ✓ Variety of Outputs
- ✓ Continuous Flow Signal
- ✓ Relay Alarm Outputs
- ✓ Rate and Total

The FMG201 Series comprises small, plastic-bodied electromagnetic flowmeters capable of measuring the pulsating flows from air and solenoid-driven metering pumps. They are designed for use with electrically conductive chemicals and fluids of varying viscosities. In addition to measuring and displaying flow rate and total flow, they have a variety of outputs. For continuous transmission of a flow signal, available outputs are 4 to 20 mA, 0 to 5V, and a frequency signal proportional to flow. Relay alarm outputs are for low and high flows with user-set flow levels.

Important Note: For proper operation, one or both of the ground lugs must be well connected with 10-24 UNC screws to a good earth ground.

SPECIFICATIONS

Accuracy:

- ±1% of Reading, +0.005 GPM (0.02 LPM): Above 10% FS
- ±3% of Reading, +0.005 GPM (0.02 LPM): Below 10% FS

Maximum Fluid Temperature: 85°C (185°F)

Maximum Pressure: 10.3 bar (150 psi) @ 24°C (75°F)



Each Unit Includes Sensing Element and Control Housing

Control housing.

Sensing element.

FMG203-NPT shown smaller than actual size.

Wetted Materials:

- Body:** PVDF
- Electrodes:** Platinum-coated titanium
- Internal Seals:** FKM
- Housings (Primary Element):** Fusion-coated aluminum
- FMG200-DC:** PVDF
- Control/Display:** Polycarbonate
- Connection:** 3/8 or 1/2 MNPT
- Mounting Holes:** 4 holes, 0.218" Dia.
- DIMENSIONS**
- Housing:** 125 H x 125 W x 74 mm D (4.93 x 4.93 x 2.92")
- Flow Sensor:** 112 H x 95 W x 89 mm D (4.4 x 3.75 x 3.5")

Cables (Controller to Sensor):

- 1.8 m (6') standard, 6 m (20') optional
- Power:** 115 Vac, 60 Hz
- Display:** Backlit LCD (2 lines of 16 characters)
- Fuse (Included):** 0.25 A, 5 x 20 mm
- Minimum Conductivity:** 20 µS
- Outputs:** 4 to 20 mA (24 Vdc required), 0 to 5V (both isolated); frequency to 9999 pulses per gallon; isolated 10 mH, 30 Vdc; high alarm, low alarm relay (6.25% hysteresis), isolated (100 mA, 110 Vac/Vdc)

To Order									
Model No.	MNPT	Through Hole	Nominal Full Scale		Min for 1% Accuracy		Low-Flow Cutoff		Display
			LPM	GPM	LPM	GPM	LPM	GPM	
FMG201-NPT	3/8	1/4"	3.8	1	0.38	0.1	0.04	0.01	Yes
FMG210-NPT	3/8	1/4"	3.8	1	0.38	0.1	0.04	0.01	No
FMG202-NPT	3/8	3/8"	11	3	1.14	0.3	0.08	0.02	Yes
FMG220-NPT	3/8	3/8"	11	3	1.14	0.3	0.08	0.02	No
FMG203-NPT	1/2	1/2"	38	10	3.8	1	0.15	0.04	Yes
FMG230-NPT	1/2	1/2"	38	10	3.8	1	0.15	0.04	No

Comes complete with operator's manual, bracket and power cord.
 For barb fittings, replace "-NPT" with "-BRB", no additional charge.
 For units with 6 m (20') sensor cable, add "-20FT" to the model number, for additional cost.
Ordering Examples: FMG201-NPT, 0.01 to 1 GPM magmeter with display.
 FMG220-NPT, 0.02 to 3 GPM magmeter without display.