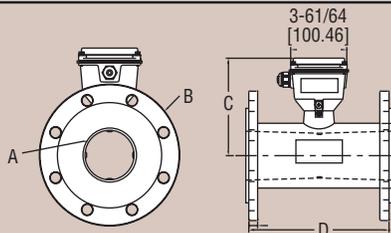




Series  
FLMG

# Flanged Electromagnetic Flow Sensor

No Moving Parts, Minimal Straight Pipe Requirement, Unobstructed Flow



Dimension	A	B	C	D
FLMG-04-XX-XXX-X	Ø 3.12" (Ø 79 mm)	9" (229 mm)	7" (178 mm)	10.24" (260 mm)
FLMG-06-XX-XXX-X	Ø 5.05" (Ø 128 mm)	11" (279 mm)	8.1" (206 mm)	12.27" (312 mm)
FLMG-08-XX-XXX-X	Ø 6.44" (Ø 164 mm)	13.5" (330 mm)	9.1" (231 mm)	14.24" (362 mm)
FLMG-10-XX-XXX-X	Ø 8.61" (Ø 219 mm)	16" (406 mm)	10.1" (257 mm)	18.18" (462 mm)

The Series FLMG Flanged Electromagnetic Flow Sensor is a flanged electromagnetic flowmeter designed for use in 4 to 10" pipes in municipal or industrial water and wastewater applications. The FLMG has no moving parts and requires less frequent maintenance in applications where debris or sand is in the flow. It's specially designed with electrodes that discourage fouling and requires little space between the meter and a pipe elbow. Rate and total indication are standard for both models. The included 20-foot power cable provides pulse output for use with a variety of displays and controllers for remote reading, data logging, pulse-to-analog conversion, and telemetry applications. This series also features backup battery power to provide auxiliary power during power failures.

#### ACCESSORIES

- Series BAT, Blind Analog Transmitter, converts pulse output to 4 to 20 mA analog output. Unit is loop powered, fits on the enclosure of the meter, and is field spannable.
- Series RTI, Rate Total Indicator, converts pulse output to 4 to 20mA analog output with local flow rate and totalization display. Unit is loop powered, fits on the enclosure of the meter, and provides a high/low flow alarm.
- Series PWD, Pulse Divider, for use with pacing electronic metering pumps. Unit divides the input frequency to any number from 1 to 9999 with the use of rotary switches to suit a number of metering pump inputs.

#### SPECIFICATIONS

- Service:** Compatible non-coating conductive liquids.
- Range:** See chart.
- Wetted Materials:**  
Liner: Dual durometer rubber;  
Electrodes: 316 SS.
- Accuracy:** ±1% (10% to 100% of FS max. flow), ±2% (min. to 10% FS).
- Temperature Limits:** Process: 10 to 130°F (-12 to 54°C); Ambient: -40 to 158°F (-40 to 70°C).
- Pressure Limits:** 150 psi (10.3 bar).
- Mounting Orientation:** Horizontal or vertical.
- Process Connection:** 150# drilling ANSI flange.
- Display:** Rate: 5 digits; Total: 8 digits LCD.
- Output:** Current sinking square wave pulse, opto-isolated.

- Power Requirements:** 7 to 32 VDC @ 30 mA and (2) 3.6 V AA lithium metal batteries, installed and functional, user replaceable for backup power.
- Battery Life:** 2 months with power failure; 10 years with power.
- Electrical Connection:** #22 AWG, 3 conductor length (18' (5.5 m) (2000' max.)).
- Conductivity:** ≥20 microSiemens.
- Empty Pipe Detection:** Hardware/software, conductivity-based.
- Enclosure Materials:**  
Body: Epoxy-coated welded steel;  
Housing: Powder-coated diecast aluminum;
- Enclosure Rating:** NEMA 4X (IP66).
- Weight:**  
4": 32 lb (14515 g);  
6": 47 lb (21319 g);  
8": 69 lb (31298 g);  
10": 125 lb (56699 g).

Example	FLMG	04	GM	GAL	H	15	FLMG-04-GM-GAL-H-15
Series	FLMG						Flanged Electromagnetic Flow Sensor
Power/Size		04 06 08 10					DC Powered 4" Pipe DC Powered 6" Pipe DC Powered 8" Pipe DC Powered 10" Pipe
Rate/ Measurement			GM LM LS FM MH GD LD				Gallon/Minute Liter/Minute Liter/Second Cubic Foot/Minute Cubic Meter/Day Million Gallon/Day Mega Liter/Day
Total Measurement				GAL GLX LIT LTX MLT CMT CMX CFT CFX			Gallon Gallon x 1000 Liter Liter x 1000 Mega Liter Cubic Meter Cubic Meter x 1000 Cubic Feet Cubic Feet x 1000
Pulse Rate					H 1 2 4		High Frequency* Required with use with Series BAT 10 Units*/Pulse 100 Units*/Pulse 1000 Units*/Pulse
Options						15 30 45 60 DL	Factory-Installed Power/Output Cable, 15 m (50 ft)** Factory-Installed Power/Output Cable, 30 m (100 ft)** Factory-Installed Power/Output Cable, 45 m (150 ft)** Factory-Installed Power/Output Cable, 60 m (200 ft)** Internal Data Logger

\*Units: Gal or Liter depending on (rate/total unit) selection rate measurement  
\*\*20-foot (6 m) cable standard

	4"		6"		8"		10"	
	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec	Gal/Min	Liter/Sec
Minimum	12	.75	32	2	60	3.8	95	6
Maximum	500	31.5	1200	75.7	2200	138.8	3500	220.8

FLOW

Flow Transmitters,  
Electromagnetic, In-Line