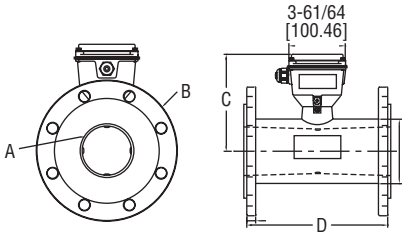
Dwyer

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 Transmitters is a flanged, in-line flowmeter designed for use in 4 to 10″ (10 to 25 cm) pipes. This series displays flow rate and total with selectable pulse rate output.

FEATURES/BENEFITS

- Long life cycle and less frequent maintenance with no moving parts to wear or break and electrodes that discourage fouling
- Minimum space requirement between the meter and a pipe elbow
- Rate and total indication are standard on large LCD display
- Obstruction free pipe cross-section yields low pressure drop
- Unaffected by change in temperature, density, viscosity or concentration
- Pulse output for use with a variety of displays and controllers for remote reading
- Backup battery power to provide auxiliary power during power failures

APPLICATIONS

- Contaminated liquid flow monitoring
- Flow of conductive liquids
- Water & wastewater treatment
- Industrial systems
- Irrigation applications
- Telemetry applications

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).

ACCESSORIES

Series	Description
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. (BAT-W option only)
RTI2	Rate total indicator; converts pulse output to 4 to 20 mA analog output with local flow rate and totalization display; unit is loop powered, can fit on the enclosure of the meter, and provides a high/low flow alarm. (RTI-P & RTI-W options only)
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. (See website)

MODEL CHART

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 and RTI 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

***Display is 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