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 is 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: 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 cond length (18’(5.5 m ) (2000’ max).
Conductivity: ≥20 microSiemens.

Example
Series FLMG-04-XX-XXX-X
1. DC Powered 4” Pipe
2. DC Powered 6” Pipe
3. DC Powered 8” Pipe
4. DC Powered 10” Pipe

Rate/Measurement
– Gallon/Minute
– Liter/Minute
– Liter/Second
– Cubic Foot/Minute
– Cubic Meter/Day
– Million Gallon/Day
– Mega Liter/Day

Total Measurement
– Gallon
– Gallon x 1000
– Liter
– Liter x 1000
– Mega Liter
– Cubic Meter
– Cubic Meter x 1000
– Cubic Feet
– Cubic Feet x 1000

Pulse Rate
– High Frequency* Required with use with Series BAT
– 10 Units*/Pulse
– 100 Units*/Pulse
– 1000 Units*/Pulse

Options
– 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

Table:

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<td>Pulse Rate</td>
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<td>Options</td>
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<td>60</td>
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<td>Factory-Installed Power/Output Cable, 15 m (50 ft)*</td>
</tr>
</tbody>
</table>

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