The Series LOFM Low-Flow Magmeter is a liquid electromagnetic flow sensor that uses the conductivity of fluids to measure flow. Liquid flow through its magnetic field produces a voltage which is measured and translated into a pulse output signal. The LOFM can be combined with the Series RTI for flow rate and total display. This meter comes with a variety of factory-installed adapters and O-rings. The LOFM comes in either 3/4” or 3/8” pipe.

The Series LOFM can accurately measure flow rates as low as 0.03 gallons per minute. The meter is housed in a splash proof HDPE plastic, making it good for chemical injection applications. With no metal parts, the LOFM is corrosion-resistant and compatible with a wide range of chemicals. With no moving parts, the meter can handle dirty water applications where moving parts might cause jamming or clogging. The LOFM comes standard with Flaretek® fittings, but NPT adapters are available.

**Features**
- Low Cut Off Flow Rate
- No Metal Parts
- No Moving Parts
- No Straight Pipe Requirements

**SPECIFICATIONS**
- **Service:** Compatible clean or dirty non-coating, conductive liquids.
- **Range:** LOFM-1: 0.2 to 20 GPM (0.01 to 1.3 l/s); LOFM-2: 0.03 to 3 GPM (0.002 to 0.2 l/s).
- **Wetted Materials:**
  - Body: PVDF
  - Electrodes: PVDF carbon-fiber filled
  - Ground: PVDF carbon-fiber filled
  - Fittings: PVC or PVDF
  - Adapters: PVC or PVDF
  - O-rings: EPDM or Fluoroelastomer (for NPT fitting only).
- **Accuracy:**
  - LOFM-1: +1% of reading, +0.005 GPM
  - LOFM-2: +1% of reading, +0.002 GPM
- **Temperature Limits:** Process: 32 to 200°F (0 to 93°C); Ambient: 0 to 130°F (-18 to 54°C).
- **Pressure Limit:** 150 psi (10.3 bar).
- **Process Connections:** Flaretek® fittings standard in 3/4 or 3/8” flowbody (NPT threaded adapters also available).
- **Output:** Current sinking, square wave pulse, opto-isolated, 30 VDC @ 5 mA max. and 4 to 20 mA:
  - LOFM-1: 1892 pulses/gal (500 pulses/L)
  - LOFM-2: 3785 pulses/gal (1000 pulses/L).
- **Power Requirements:** 10 to 15 VDC, 150 mA (linear power supply recommended).
- **Conductivity:** > 20 microSiemens.
- **Enclosure Material:** HDPE with glass fiber.
- **Weight:** 2.20 lb (1.00 kg).

**Example**

<table>
<thead>
<tr>
<th>Construction</th>
<th>LOFM-1</th>
<th>44C</th>
<th>42C</th>
<th>88C</th>
<th>84F</th>
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<tr>
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<td>1F</td>
<td>1TN</td>
<td>1FT</td>
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<tr>
<td>NPT Fittings</td>
<td></td>
<td>44C</td>
<td>44F</td>
<td>42C</td>
<td>88C</td>
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<tr>
<td>(Optional Replace FlareTek® Fittings)</td>
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<td>42F</td>
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<td>84F</td>
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<td>O-Ring (Only required with NPT fittings)</td>
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<td>Flare Tool (Only required with FlareTek® fittings)</td>
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</table>

*The prices for the NPT adapters and O-rings are for the two required.

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