MAGNETIC INDUCTIVE FLOW SENSORS
No Moving Parts, Frequency and 4-20 mA Output, Maintenance-Free

The Series MFS & MFS2 Magnetic Inductive Flow Sensors are compact, 316 SS body, in line flowmeters with pulse and optional analog 4 to 20 mA output. It is available in a variety of flow ranges from 0.25 to 52.8 GPM (1 to 200 LPM) and process connection sizes of 1/2˝ and 1˝ NPT.

FEATURES/BENEFITS
• Long life cycle with no moving parts to wear or break
• Can be applied in applications dealing with contaminated media with no mechanical component in the flow
• Obstruction free pipe cross-section yields low pressure drop
• Unaffected by change in temperature, density, viscosity or concentration

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

MODEL CHART

<table>
<thead>
<tr>
<th>Model</th>
<th>Range GPM (LPM)</th>
<th>Minimum Output Signal GPM (LPM)</th>
<th>Process Connection</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFS-11</td>
<td>0.25 to 5.3 (1 to 20)</td>
<td>0.13 (0.5)</td>
<td>1/2˝ NPT</td>
<td>Frequency</td>
</tr>
<tr>
<td>MFS-21</td>
<td>0.5 to 10.5 (2 to 40)</td>
<td>0.25 (1)</td>
<td>1/2˝ NPT</td>
<td>Frequency</td>
</tr>
<tr>
<td>MFS-31</td>
<td>2.5 to 52.8 (10 to 200)</td>
<td>1.3 (5)</td>
<td>1˝ NPT</td>
<td>Frequency</td>
</tr>
<tr>
<td>MFS-12</td>
<td>0.25 to 5.3 (1 to 20)</td>
<td>0.13 (0.5)</td>
<td>1/2˝ NPT</td>
<td>Frequency &amp; analog</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFS-C3</td>
<td>4 pin cable socket M12x1 connect, 9.8 ft (3 m)</td>
</tr>
<tr>
<td>MFS-C5</td>
<td>4 pin cable socket M12x1 connect, 16.4 ft (5 m)</td>
</tr>
<tr>
<td>MFS-C10</td>
<td>4 pin cable socket M12x1 connect, 32.8 ft (10 m)</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Service: Compatible, non-coating, conductive liquids.
Range: See model chart.
Accuracy: MFS: ±1% or reading; MFS2: ±1% or reading.
Repeatability: 1%.
Temperature Limits: MFS: Process: 32 to 194°F (0 to 90°C); Ambient: 41 to 158°F (5 to 70°C); MFS2: Process: 14 to 140°F (-10 to 60°C); Ambient: 41 to 140°F (5 to 60°C).
Pressure Limits: MFS: 232 psi (16 bar); MFS2: 145 psi (10 bar) @ 68°F (20°C); 116 psi (8 bar) @ 104°F (40°C); 87 psi (6 bar) @ 140°F (60°C).
Response Time: MFS: < 500 ms; MFS2: < 100 ms.

Power Requirements: 24 VDC ±10%.
Power Consumption: 0.6 W.
Output: Frequency: Square-wave, NPN or PNP; Analog: 4 to 20 mA.
Loop Resistance: 250 Ω.
Current Consumption: Max 80 mA.
Minimum Conductivity of Medium: 50 µS/cm.
Flow Indication: LED green, flow proportional blinking.
Enclosure Rating: NEMA 4 (IP65).
Process Connection: See model chart.
Electrical Connection: Plug connector M12x1.
Weight: MFS-1X: 1.5 lb (0.68 kg); MFS-2X: 1.7 lb (0.77 kg); MFS-3X: 1.9 lb (0.87 kg); MFS-1, -2, -3, -4, -5: 8 oz (226.8 g); MFS-6: 1 lb (0.45 kg).