INSEArTION ELECTROMAGNETIC FLOW SENSOR
No Moving Parts, Durable, Easy Installation & Maintenance, 1 to 12˝ Pipe (25 to 305 mm)

The SERIES EFS2 Insertion Electromagnetic Flow Transmitters is an economical, fixed insertion flowmeter designed for use with the Series EFF fittings and tees to fit in pipe sizes ranging from 1 to 12˝ (2.5 to 30.5 cm) pipes. This series provides a pulse rate output of the flow.

FEATURES/BENEFITS
• Long life cycle and less frequent maintenance with no moving parts to wear or break and electrodes that discourage fouling
• Unaffected by change in temperature, density, viscosity or concentration
• Pulse output for use with a variety of displays and controllers for remote reading
• Easy meter mount display and transmitter accessories for local indication and analog 4 to 20 mA output

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

SPECIFICATIONS
Service: Compatible clean or dirty non-coating, conductive liquids.
Range: 0.28 to 20 ft/s (0.08 to 6.09 m/s).
Wetted Materials: Sensor: 316 SS, brass or PVC; Electrodes: Hastelloy®, metal; Electrode Cap: PVDF; O-ring: EPDM (fluoroelastomer optional).
Accuracy: ±1% FS.
Temperature Limits: Process: Brass/SS: 32 to 200°F (0 to 93°C); PVC: 32 to 130°F (0 to 55°C); Ambient: 0 to 160°F (-17 to 72°C).
Pressure Limits: Brass/SS: 200 psi (13.8 bar); PVC: 150 psi (10 bar).
Process Connection: See page reference below.
Output: Current sinking, square wave pulse, opto-isolated, 550 Hz @ 20 ft/s.
Power Requirements: 12 to 25 VDC @ 250 mA; (12 to 25 VDC @ 40 mA (max. 250 mA) - LOP option).
Electrical Connection: Terminal block.
Conductivity: 20 microSiemens/cm.
Enclosure Rating: NEMA 4X (IP66).
Weight: 3 lb (1361 g).

MODEL CHART

<table>
<thead>
<tr>
<th>Example</th>
<th>EFS2</th>
<th>EFS2-1P- RFO</th>
<th>EFS2-1P-RFO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>EFS2</td>
<td>Insertion electromagnetic flow sensor</td>
<td>$785.00</td>
</tr>
<tr>
<td>Size/Material</td>
<td>1P</td>
<td>1 to 3˝ pipe, PVC</td>
<td>+$120.00</td>
</tr>
<tr>
<td></td>
<td>1B</td>
<td>1 to 3˝ pipe, brass</td>
<td>+$283.00</td>
</tr>
<tr>
<td></td>
<td>1S</td>
<td>1 to 3˝ pipe, 316 SS</td>
<td>+$160.00</td>
</tr>
<tr>
<td></td>
<td>2P</td>
<td>4 to 10˝ pipe, PVC</td>
<td>+$394.00</td>
</tr>
<tr>
<td></td>
<td>2B</td>
<td>4 to 10˝ pipe, brass</td>
<td>+$105.00</td>
</tr>
<tr>
<td></td>
<td>2S</td>
<td>4 to 10˝ pipe, 316 SS</td>
<td>+$245.00</td>
</tr>
<tr>
<td></td>
<td>3P</td>
<td>12˝ pipe, PVC</td>
<td>+$475.00</td>
</tr>
<tr>
<td></td>
<td>3B</td>
<td>12˝ pipe, brass</td>
<td>+$394.00</td>
</tr>
<tr>
<td></td>
<td>3S</td>
<td>12˝ pipe, 316 SS</td>
<td>+$196.00</td>
</tr>
</tbody>
</table>

Options
BAT | Blind analog transmitter | $484.00
RFO | Reverse flow output | +$196.00
IMM | Immersible (urethane potted electrical connection) | +$119.00
FOR | Fluoroelastomer O-ring | +$21.25
LOP | Low power (12 to 25 VDC @ 40 mA) (max 250 mA) | -

Note: Need to purchase with Series EFF fitting for proper installation.
① Items are subject to Schedule B discounts.

ACCESSORIES

<table>
<thead>
<tr>
<th>Series</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAT</td>
<td>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.</td>
</tr>
<tr>
<td>RTI20</td>
<td>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.</td>
</tr>
<tr>
<td>PWD</td>
<td>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)</td>
</tr>
</tbody>
</table>

USA: California Proposition 65
WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Hastelloy® is a registered trademark of Hanes International
①Process Connection: See page 312 (Series EFF)
②See page 320 (Series BAT)
③See page 320 (Series RTI)

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