FLUXUS® XLF
Non-invasive Flow Meter for Extremely Low Flow rates

Reliable - Repeatable - Rugged

Chemical Injection for Oil & Gas Exploration

Odorization lines in Natural Gas Distribution

Chemical dosing in Water and Wastewater treatment

Paint spray lines

Pulp & Paper Industry

Chemical and Petrochemical Industries

Semiconductor Industry

FLEXIM
when measuring matters
Do you need to measure really low flows?

Turn to FLUXUS® XLF

FLUXUS® XLF is FLEXIM’s non-invasive metering system for the stable and long term reliable measurement of extremely low flow rates down to 1 gal/h and below on line sizes ranging from 0.4 inch to 2 inches independent of the pipe wall thickness. As the flow sensors are mounted externally, there is no process interruption for installation. Moreover, due to their NEMA 6P rating, ATEX / IECEx Zone 1 / 2 as well as FM Class I, Div. 1 / 2 approval and being completely made out of stainless steel (316L / 1.4404 grade), the measurement system is highly rugged and withstands even the harshest and most corrosive environmental conditions.

**Advantages:**

- Non-invasive flow measurement:
  - No process shut-downs or interruption of supply
  - No potential for leaks
  - Completely maintenance free
- Accurate and highly repeatable measurement of extremely low flows
- Applicable to any pipe and any liquid media
- Rugged and hazardous area approved transducers and transmitters (ATEX / IECEx Zone 1/2, FM Class I, Div. 1/2)
- Matched transducers, advanced digital signal processing (DSP) and efficient algorithms ensure stable measurements at very low flows

**Tests with water under stable temperature conditions yield the following results:**

For thin-wall (0.02-0.04”) tubing, after zeroing, the meter will consistently provide better than 5% volume accumulation uncertainty (based on flowing for at least one minute) for the flow rates listed in the table below, using an 8-pass installation with Q transducers. This performance will be observed for 95% of batches (two-sigma).

<table>
<thead>
<tr>
<th>Tubing OD (inches)</th>
<th>Low End (gph)</th>
<th>High End (gph)</th>
<th>VelLow (l/s)</th>
<th>VelHigh (l/s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.375</td>
<td>0.07</td>
<td>8</td>
<td>0.007</td>
<td>0.57</td>
</tr>
<tr>
<td>0.500</td>
<td>0.1</td>
<td>10</td>
<td>0.003</td>
<td>0.35</td>
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<tr>
<td>0.750</td>
<td>0.12</td>
<td>20</td>
<td>0.003</td>
<td>0.28</td>
</tr>
</tbody>
</table>