ABB MEASUREMENT & ANALYTICS

HygienicMaster FEH630
The clean choice for all hygienic applications
HygienicMaster FEH630
Meets the highest demands

Advanced features and functionality that enable you to operate more efficiently, reduce costs and increase profitably

Designed to meet highest levels of demands for enhanced metering in the food & beverage industry, HygienicMaster FEH630 delivers more than just reliable and accurate measuring values.

This innovative next generation of electromagnetic flowmeters provides a modular transmitter design combined with SmartSensor technology and built-in verification – technical advances that deliver a clear business and performance benefit.

HygienicMasters hermetically sealed, fully potted sensor ensures optimum moisture protection from breathing and condensation in applications with varying temperatures. Variable process connections provide a great deal of flexibility, simplifying installation and reducing inventory. The sensor is CIP/SIP cleanable, manufactured from FDA approved materials and certified in accordance with 3A.
HygienicMaster FEH630
Robust and reliable

HygienicMaster FEH630 tailored to your application

<table>
<thead>
<tr>
<th>Key features at a glance</th>
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<tbody>
<tr>
<td>Nominal diameter</td>
<td>DN 1 to 100 (⅛ to 4 in.)</td>
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<tr>
<td>Nominal pressure</td>
<td>PN 10 to 40, CL 150 to 300</td>
</tr>
<tr>
<td>Process connection</td>
<td>Weld stubs, threaded pipe connections, Tri-Clamps, wafer, external threads, flanges in accordance with DIN/EN, ASME, JIS</td>
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<tr>
<td>Liner</td>
<td>PFA, vacuum stable</td>
</tr>
<tr>
<td>Protection class</td>
<td>IP 67 or IP 68</td>
</tr>
<tr>
<td>Fluid temperature</td>
<td>Up to 180 °C (356 °F)</td>
</tr>
<tr>
<td>Inputs / Outputs</td>
<td>Up to 2 x analog (4 to 20 mA)</td>
</tr>
<tr>
<td>Communication</td>
<td>HART, PROFIBUS, Modbus</td>
</tr>
<tr>
<td>Ex approvals</td>
<td>ATEX, IECEx, FM, cFM</td>
</tr>
<tr>
<td>Accuracy</td>
<td>Up to 0.2 % of rate</td>
</tr>
<tr>
<td>Process diagnosis</td>
<td>Empty pipe, gas bubble detection, electrode impedance, temperature</td>
</tr>
<tr>
<td>Verification</td>
<td>Built-in</td>
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HygienicMaster FEH630
Diagnostics for real-life situations

Availability – for a profitable operation

Detect critical process conditions at an early stage. Reduce unscheduled downtime and maintenance.

- Gas bubble, partial filling or empty pipe detection
- Continuous electrode impedance and conductivity measurement
- Sensor and transmitter temperature monitoring
- Peace-of-mind knowing flowmeter is operating within its specification
- Prioritized alarms to correct most important alarm first
- Clear text messages for simplified trouble shooting
- Device diagnostic information can be accessed without any intervention – either through the display unit, bus communication or the highspeed infrared port
HygienicMaster FEH630
In-situ verification

For highest confidence in your flow measurement

**Fingerprint technology – your benefits**

- On-board sensor and transmitter integrity check
- Easy to operate
- No additional equipment required
- No training necessary
- Check provides a clear pass / fail result
- Built-in service interval timer / verification scheduler
HygienicMaster FEH630
Grounding Check
Noise Check

For a most stable flow measurement

Verify the installation is correct from day one

Improving quality and reducing cost can be a challenge if the flow measurement is unstable. A proper grounding is fundamental to an accurate electromagnetic flow measurement. HygienicMaster’s built-in noise / grounding check helps getting the wiring / grounding correct.

- Easy to operate
- No need to remove flowmeter from the process
- No training necessary
- Quick check of flowmeter grounding
HygienicMaster FEH630
Backwards compatible to the installed base

Save your investment in ABB flowmetering technology

Take advantage of new features and improved performance. Switch to the new product on your own schedule. Minimize inventory and reduce cost of changeouts.

- Drop in replacement
- Sensor cabling remains unchanged
- Same operating philosophy with Easy Set-up and Sensor Set-up
- Minimal training
- Less inventory, less cost
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