

HygienicMaster FEH630

Robust and reliable

HygienicMaster FEH630 tailored to your application

Key features at a glance	
Nominal diameter	DN 1 to 100 (1/25 to 4 in.)
Nominal pressure	PN 10 to 40, CL 150 to 300
Process connection	Weld stubs, threaded pipe connections, Tri-Clamps, wafer, external threads, flanges in accordance with DIN/EN, ASME, JIS
Liner	PFA, vacuum stable
Protection class	IP 67 or IP 68
Fluid temperature	Up to 180 °C (356 °F)
Inputs / Outputs	Up to 2 x analog (4 to 20 mA) Up to 4 x digital output
Communication	HART, PROFIBUS DP, Modbus RTU, Modbus TCP, Ethernet IP
Ex approvals	ATEX, IECEx, FM, cFM
Accuracy	Up to 0.2 % of rate
Process diagnosis	Empty pipe, gas bubble detection, electrode impedance, temperature
Verification	Built-in



ABB Measurement & Analytics

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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.



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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

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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

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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

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Ethernet IP
Communication

For total control of your Process and the Flowmeter

**Take advantage of Ethernet IP Communication delivering significant operational and financial benefits.
Do more in less time**

- Access to all Data through in-built Web Server
- No Need for further Tools
- Power over Ethernet for a truly Plug & Play solution
- Star, Ring and Daisy Chain Network Topologies supported
- In-depth Cyber Security integrated
- Device Verification over Ethernet

