ProcessMaster FEP630
Robust and reliable

For all applications in sectors such as chemical industry, energy, industrial waste, pulp and paper, mining

Key features at a glance	
Nominal diameter	DN 3 to 2000 (1/10 to 80 in.)
Nominal pressure	PN 10 to 250, Cl 150 to 2500
Flange connection	DIN/EN, ASME, JIS, others
Liner	Hardrubber, Softrubber, PTFE, PFA, ETFE; Ceramic Carbide
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, partial filling, gas bubble detection, electrode impedance, temperature
Verification	built-in

ABB MEASUREMENT & ANALYTICS

ProcessMaster FEP630
The first choice for all industrial applications

LI/FEP630-EN Rev. C 02.2021

ProcessMaster FEP630
Meets the highest demands

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

Proven to be tough, reliable and incredibly easy to work with, ProcessMaster FEP630 delivers the power to solve your most demanding process applications.

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.

ProcessMasters superior sensor design withstands harshest environmental conditions. Industry optimized liner and electrode materials, designed to withstand abrasion and corrosion, make ProcessMaster FEP630 the perfect fit for your application. ProcessMaster FEP630 is the no. 1 choice in industries such as chemical, power, oil & gas, pulp & paper and metals & mining.
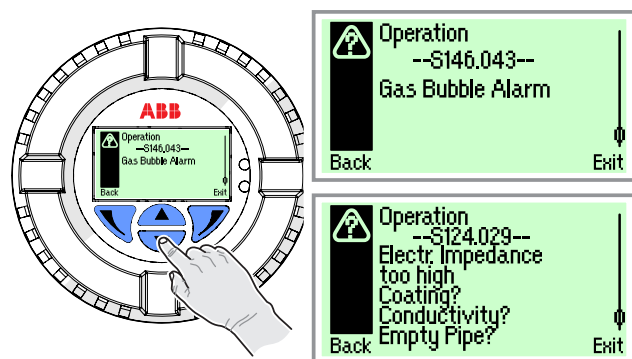
ProcessMaster FEP630
Diagnostics for real-life situations

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
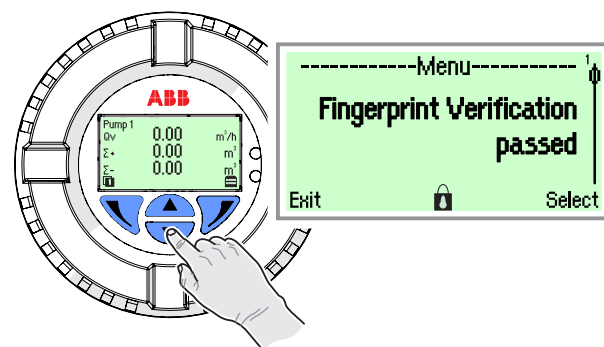
ProcessMaster FEP630
In-situ verification

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
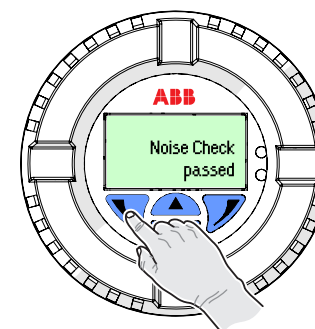
ProcessMaster FEP630
Grounding Check
Noise Check

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. ProcessMaster'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

ProcessMaster FEP630
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 Webserver
- 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