



ABB MEASUREMENT & ANALYTICS

ProcessMaster FEP630

The first choice for all industrial applications





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

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, CI 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, Modbus
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



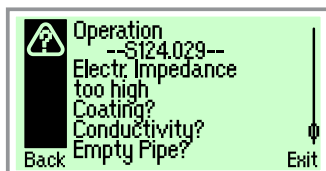
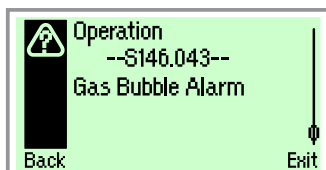
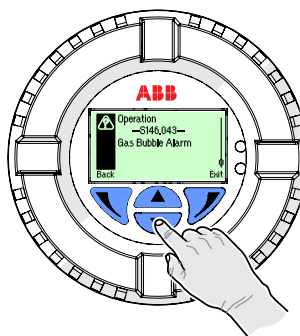
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Diagnostics for real-life situations

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



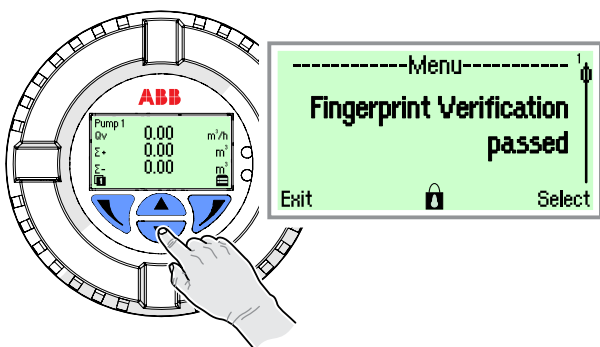
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In-situ verification

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

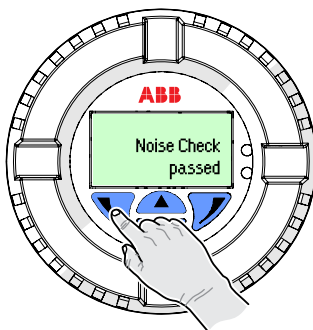
Noise Check

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. 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

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



Contact

ABB Limited

Measurement & Analytics

Howard Road, St. Neots

Cambridgeshire, PE19 8EU, UK

Phone: +44 (0) 870 600 6122

Fax: +44 (0)1480 213 339

E-Mail: enquires.mp.uk@gb.abb.com

ABB Inc.

Measurement & Analytics

125 E. County Line Road

Warminster, PA 18974, USA

Phone: +1 215 674 6000

Fax: +1 215 674 7183

ABB Engineering (Shanghai) Ltd.

Measurement & Analytics

No. 4528, Kangxin Highway, Pudong New District

Shanghai, 201319, P.R. China

Phone: +86(0) 21 61056666

Fax: +86(0) 21 61056677

E-Mail: china.instrumentation@cn.abb.com

ABB Automation Products GmbH

Measurement & Analytics

Dransfelder Str. 2

37079 Göttingen, Germany

Phone: +49 551 905 0

Fax: +49 551 905 777

E-Mail: vertrieb.messtechnik-produkte@de.abb.com

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