Proline Promag H 10 electromagnetic flowmeter

Flowmeter for basic hygienic applications with easy-to-use operation concept

More information and current pricing:
www.endress.com/5HBB

Benefits:

- Easy integration into your plant infrastructure with IO-link
- Flexible installation concept – numerous hygienic process connections
- Energy-saving flow measurement – no pressure loss due to cross section constriction
- Maintenance-free – no moving parts
- Optimum usability – display with touch screen (HART and Modbus RS485 communication only) or operation with mobile devices and SmartBlue app
- Simple, time-saving commissioning – guided parameterization in advance and in the field
- Integrated verification – Heartbeat Technology

Specs at a glance

- **Max. measurement error** Volume flow (standard): ±0.5 % o.r. ± 1 mm/s (0.04 in/s)
- **Measuring range** 0.06 dm³/min to 600 m³/h (0.015 to 2650 gal/min)
- **Medium temperature range** –20 to +150 °C (–4 to +302 °F)
- **Max. process pressure** PN 40, Class 150, 20K
- **Wetted materials** Liner: PFA Electrodes: 1.4435 (316L); Alloy C22 Process Connections: stainless steel, 1.4404 (F316L); PVDF; PVC adhesive sleeve Seals: aseptic molded seal (EPDM, FKM, silicone)

Field of application: Promag H is the preferred sensor for hygienic applications in the food and beverage and life sciences industries. With its straightforward hard- and software design, Promag H 10 simplifies every step in its life cycle from engineering to servicing at usual

Endress+Hauser quality. Heartbeat Technology enables measurement reliability and extension of recalibration cycles.

Features and specifications

Liquids

Measuring principle
Electromagnetic

Product headline
Flowmeter for basic hygienic applications with easy-to-use operation concept.
For applications with sanitary requirements.

Sensor features
Flexible installation concept – numerous hygienic process connections. Energy-saving flow measurement – no pressure loss due to cross section constriction. Maintenance-free – no moving parts.
Liner made of PFA. Sensor housing made of stainless steel (3-A, EHEDG). Wetted materials CIP-/SIP-cleanable.

Transmitter features
Optimum usability – display with touch screen (HART and Modbus RS485 communication only) or operation with mobile devices and SmartBlue app. Simple, time-saving commissioning – guided parameterization in advance and in the field. Integrated verification – Heartbeat Technology.
System integration with HART, Modbus RS485, IO-Link. Flexible operation with app and optional display.

Nominal diameter range
DN 2 to 150 (1/12 to 6")

Wetted materials
Liner: PFA
Electrodes: 1.4435 (316L); Alloy C22
Process Connections: stainless steel, 1.4404 (F316L); PVDF; PVC adhesive sleeve
Seals: aseptic molded seal (EPDM, FKM, silicone)

Liquids

Measured variables
Volume flow, temperature, conductivity, mass flow, corrected volume flow, corrected
conductivity

Max. measurement error
Volume flow (standard): ±0.5 % o.r. ± 1 mm/s (0.04 in/s)

Measuring range
0.06 dm^3/min to 600 m^3/h (0.015 to 2650 gal/min)

Max. process pressure
PN 40, Class 150, 20K

Medium temperature range
–20 to +150 °C (–4 to +302 °F)

Ambient temperature range
–40 to +60 °C (–40 to +140 °F)

Sensor housing material
1.4301 (304), corrosion resistant

Transmitter housing material
AlSi10Mg, coated

Degree of protection
Standard: IP66/67, type 4X enclosure

Display/Operation
2.4" LCD display with touch & auto rotate; Configuration and operation via SmartBlue App (Bluetooth) possible

Outputs
4-20 mA HART (active/passive), Pulse/frequency/switch output
Modbus RS485, 4-20 mA

Digital communication
HART, MODBUS RS485, IO-Link

Liquids

Power supply
DC 24 V
AC 100 to 230 V
AC 100 to 230 V / DC 24 V (non-hazardous area)

Hazardous area approvals
CSA, GP, KC

Metrological approvals and certificates
Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)
Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

Pressure approvals and certificates
PED, CRN

Material certificates
3.1 material

Hygienic approvals and certificates
Sanitary approval: EHEDG, 3-A, liner and seals acc. to FDA, cGMP

More information **www.endress.com/5HBB**