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:

- 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 – operation with mobile devices and SmartBlue app or display with touch screen
- 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 ensures measurement reliability and enables extension of recalibration cycles.

Endress+Hauser

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 – operation with mobile devices and SmartBlue app or display with touch screen. Simple, time-saving commissioning – guided parameterization in advance and in the field. Integrated verification – Heartbeat Technology.
System integration with HART, Modbus RS485. Flexible operation with app and optional display.

Nominal diameter range

DN 2 to 150 ($\frac{1}{12}$ 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 dm³/min to 600 m³/h (0.015 to 2650 gal/min)

Max. process pressure

PN 40, Class 150, 20K

Medium temperature range

−20 to +150 ℃ (−4 to +302 ℉)

Ambient temperature range

−40 to +60 ℃ (−40 to +140 ℉)

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

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

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**