# 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 dm<sup>3</sup>/min to 600 m<sup>3</sup>/h (0.015 to 2650 gal/min)
- Medium temperature range  $-20 \text{ to } +150 \,^{\circ}\text{C} \, (-4 \text{ to } +302 \,^{\circ}\text{F})$
- 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.

# 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):  $\pm 0.5$  % o.r.  $\pm 1$  mm/s (0.04 in/s)

#### Measuring range

 $0.06 \text{ dm}^3/\text{min to } 600 \text{ m}^3/\text{h} (0.015 \text{ to } 2650 \text{ gal/min})$ 

## Max. process pressure

PN 40, Class 150, 20K

#### Medium temperature range

 $-20 \text{ to } +150 ^{\circ}\text{C} (-4 \text{ to } +302 ^{\circ}\text{F})$ 

#### Ambient temperature range

-40 to +60 °C (-40 to +140 °F)

## Sensor housing material

1.4301 (304), corrosion resistant

## Transmitter housing material

AlSi10Mq, 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

