

# Proline Promag H 10 Electromagnetic flowmeter

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



More information and current pricing:

[www.us.endress.com/5HBB](http://www.us.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):  $\pm 0.5\%$  o.r.  $\pm 1$  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 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.

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## Features and specifications

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### Liquids

**Measuring principle**

Electromagnetic

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**Product headline**

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

For applications with sanitary requirements.

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**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.

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**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.

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**Nominal diameter range**

DN 2 to 150 ( $\frac{1}{12}$  to 6")

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**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)

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## 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 dm<sup>3</sup>/min to 600 m<sup>3</sup>/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

## Liquids

### **Power supply**

DC 24 V

AC 100 to 230 V

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

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### **Hazardous area approvals**

CSA, GP

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### **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)

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### **Pressure approvals and certificates**

PED, CRN

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### **Material certificates**

3.1 material

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### **Hygienic approvals and certificates**

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

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