

# Proline Promag 10H

## Electromagnetic flowmeter

The flowmeter for smallest flow rates with a highly cost-effective transmitter



More information and current pricing:

[www.endress.com/10H](http://www.endress.com/10H)

### Benefits:

- Flexible installation concept – numerous hygienic process connections
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Cost-effective – designed for easy applications and direct integration
- Safe operation – display provides easy readable process information
- Fully industry compliant – IEC/EN/NAMUR
- Maintenance-free – no moving parts

### Specs at a glance

- **Max. measurement error** Volume flow:  $\pm 0,5\%$  o.r.  $\pm 2$  mm/s ( $\pm 0,5\%$  o.r.  $\pm 0,08$  in/s)
- **Measuring range** 0.06 dm<sup>3</sup>/min to 600 m<sup>3</sup>/h (0.015 gal/min to 2650 gal/min)
- **Medium temperature range** -20 to +150 °C (-4 to +302 °F)
- **Max. process pressure** PN 40, Cl. 150, JIS 20 K
- **Wetted materials** Liner: PFA Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum; Platinum Process Connections: stainless steel, 1.4404 (F316L); PVDF; PVC Seals: O-ring seal (EPDM, FKM, Kalrez), aseptic molded seal (EPDM, FKM, silicone) Grounding Rings: stainless steel, 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); tantalum

**Field of application:** Promag H is the preferred sensor for applications with highest requirements in the food and beverage and life science industries. Combined with the Promag 10 transmitter for basic applications and direct integration, Promag 10H offers accurate measurement of liquids for a wide range of applications. It will be the

preferred solution for customers aiming for minimized cost of ownership. Promag 10H is available in a compact or remote version.

## Features and specifications

### Liquids

#### Measuring principle

Electromagnetic

#### Product headline

The flowmeter for smallest flow rates with a highly cost-effective transmitter. For demanding hygienic applications.

#### 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).

#### Transmitter features

Cost - effective – designed for easy applications and direct integration. Safe operation – display provides easy readable process information. Fully industry compliant – IEC/EN/NAMUR. 2 - line display with push buttons. Device in compact or remote version.

#### Nominal diameter range

DN 2...150

1/12"...6"

#### Wetted materials

Liner: PFA

Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022);

Tantalum; Platinum

Process Connections: stainless steel, 1.4404 (F316L); PVDF; PVC

Seals: O-ring seal (EPDM, FKM, Kalrez), aseptic molded seal (EPDM, FKM, silicone)

Grounding Rings: stainless steel, 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); tantalum

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## Liquids

### Measured variables

Volume flow

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### Max. measurement error

Volume flow:  $\pm 0,5\%$  o.r.  $\pm 2$  mm/s ( $\pm 0,5\%$  o.r.  $\pm 0,08$  in/s)

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### Measuring range

0.06 dm<sup>3</sup>/min to 600 m<sup>3</sup>/h (0.015 gal/min to 2650 gal/min)

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### Max. process pressure

PN 40, Cl. 150, JIS 20 K

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### Medium temperature range

-20 to +150 °C (-4 to +302 °F)

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### Ambient temperature range

-40 to +60 °C (-40 to +140 °F)

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### Sensor housing material

1.4301 (304), corrosion resistant

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### Transmitter housing material

Powder-coated die-cast aluminum

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### Degree of protection

IP66/67, type 4X enclosure

Transmitter remote version: IP67, type 4X enclosure

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### Display/Operation

2 - line display with push buttons

Configuration via local display and operating tools possible

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### Outputs

4 - 20 mA HART (active)

Pulse/switch output (passive)

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### Inputs

None

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## Liquids

### Digital communication

HART

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### Power supply

DC 11 to 40 V

AC 85 to 250 V (45 to 65 Hz)

AC 20 to 28 V (45 to 65 Hz)

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### Hazardous area approvals

FM

CSA

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### Product safety

CE, C-tick, EAC marking

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### Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)

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### Pressure approvals and certificates

PED

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### Hygienic approvals and certificates

EHEDG, 3-A, FDA

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