

Proline Promag H 200  
Electromagnetic flowmeter



## Flowmeter for smallest flow rates with genuine loop-powered technology

Promag H is the preferred sensor for applications with highest requirements in the chemical and life sciences industries. With its genuine loop-powered technology, Promag H 200 enables cost-effective and seamless integration into existing infrastructures. It offers highest operational safety in hazardous areas thanks to its intrinsically safe design (Ex ia). Heartbeat Technology ensures process safety at all times.

- **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
- Convenient device wiring – separate connection compartment
- Safe...
- [Show more](#)

- **Field of application**

- The measuring principle is virtually independent of pressure, density, temperature and viscosity
- Dedicated to the measurement of the smallest flow quantities

**Device properties**

- Liner made of PFA
- Sensor housing made of stainless steel
- Various electrode...
- [Show more](#)

## Features and specifications

- [Liquids](#)

- **Measuring principle**

Electromagnetic

- **Product headline**

Flowmeter for smallest flow rates with genuine loop-powered technology. Dedicated to the measurement of the smallest flow quantities.

- **Sensor features**

Flexible installation concept – numerous 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.

- **Transmitter features**

Convenient device wiring – separate connection compartment. Safe operation – no need to open the device due to display with touch control, background lighting. Integrated verification – Heartbeat Technology. Loop-powered technology. Robust dual-compartment housing.

- **Nominal diameter range**

DN 2 to 25 (1/2 to 1")

- **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 adhesive sleeve

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

- **Measured variables**

Volume flow, mass flow

- **Max. measurement error**

Volume flow:  $\pm 0.5\%$  o.r.  $\pm 2$  mm/s (0.08 in/s)

- **Measuring range**

0.06 dm<sup>3</sup>/min to 300 m<sup>3</sup>/h (0.015 to 80 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**

IP66/67, type 4X enclosure

- **Display/Operation**

4-line backlit display with touch control (operation from outside)

Configuration via local display and operating tools possible

Remote display available

- **Outputs**

4-20 mA HART (passive)

Pulse/frequency/switch output (passive)

- **Inputs**

None

- **Digital communication**

HART, PROFIBUS PA, FOUNDATION Fieldbus

- **Power supply**

DC 18 to 35 V (4-20 mA HART with/without pulse/frequency/switch output)

- **Hazardous area approvals**

ATEX, IECEx, cCSAus, INMETRO, NEPSI, EAC, JPN

- **Product safety**

CE, C-Tick

- **Functional safety**

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

- **Metrological approvals and certificates**

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025)  
Heartbeat Technology complies with the requirements for traceable verification according to ISO 9001:2008 – Section 7.6 a (TÜV attestation)

- **Pressure approvals and certificates**

CRN

- **Material certificates**

3.1 material