Proline Promag H 200 electromagnetic flowmeter

Flowmeter for smallest flow rates with genuine loop-powered technology

More information and current pricing:
www.endress.com/5H2B

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 operation – no need to open the device due to display with touch control, background lighting
- Integrated verification – Heartbeat Technology

Specs at a glance

- **Max. measurement error** Volume flow: ±0.5 % o.r. ± 2 mm/s (0.08 in/s)
- **Measuring range** 0.06 dm³/min to 300 m³/h (0.015 to 80 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, 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

Field of application: 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.

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. Various electrode materials available.

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. Plant safety: worldwide approvals (SIL, Haz. area).

Nominal diameter range
DN 2 to 25 (1/12 to 1")

Liquids

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: ±0.5 % o.r. ± 2 mm/s (0.08 in/s)

Measuring range

0.06 dm^3/min to 300 m^3/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

Liquids

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, UK Ex

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 measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

Pressure approvals and certificates
CRN

Liquids

Material certificates

3.1 material

More information **www.endress.com/5H2B**

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