

Proline Promag H 100

Electromagnetic flowmeter

The specialist for hygienic applications with an ultra-compact transmitter



Mais informações e preço atual:

www.br.endress.com/5H1B

Benefícios:

- Multivariable measurement for flow, temperature and conductivity
- Flexible installation concept – numerous hygienic process connections
- Energy-saving flow measurement – no pressure loss due to cross-section constriction
- Space-saving transmitter – full functionality on the smallest footprint
- Time-saving local operation without additional software and hardware – integrated web server
- Integrated verification – Heartbeat Technology
- Maintenance-free – no moving parts

Especificações resumidas

- **Max. measurement error** Volume flow (standard): $\pm 0.5\%$ o.r. ± 1 mm/s (0.04 in/s) Volume flow (option) $\pm 0.2\%$ o.r. ± 2 mm/s (0.08 in/s)
- **Measuring range** 0.06 dm³/min to 600 m³/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, 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

Campo de aplicação: Promag H is the preferred sensor for hygienic applications with highest requirements in the food and beverage and life sciences industries. The ultra-compact transmitter provides full

performance on the smallest footprint and enables seamless system integration, making Promag H 100 the preferred choice for skid builders, equipment manufacturers and system integrators. Heartbeat Technology ensures compliance and process safety at all times.

Características e especificações

Liquids

Measuring principle

Electromagnetic

Product headline

Specialist for hygienic applications with an ultra-compact transmitter. Multivariable measurement of flow, temperature and conductivity. Dedicated to demanding applications in the food and beverage as well as in life sciences industries.

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. Integrated temperature measurement. Sensor housing made of stainless steel (3-A, EHEDG). Wetted materials CIP, SIP cleanable.

Transmitter features

Space - saving transmitter – full functionality on the smallest footprint. Time - saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Robust, ultra-compact transmitter housing. High degree of protection: IP69. Local display available.

Nominal diameter range

DN 2 to 150 (1/12 to 6")

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, temperature, conductivity, mass flow, corrected volume
flow, corrected
conductivity

Max. measurement error

Volume flow (standard): $\pm 0.5\%$ o.r. ± 1 mm/s (0.04 in/s)

Volume flow (option) $\pm 0.2\%$ o.r. ± 2 mm/s (0.08 in/s)

Measuring range

0.06 dm³/min to 600 m³/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

Compact: AlSi10Mg, coated

Compact/ultra - compact: 1.4301 (304)

Liquids

Degree of protection

Standard: IP66/67, type 4X enclosure

Option: IP69

Display/Operation

4 - line backlit display available (no local operation)

Configuration via web browser and operating tools possible

Outputs

4 - 20 mA HART (active)

Pulse/frequency/switch output (passive)

Inputs

None

Digital communication

HART, PROFIBUS DP, Modbus RS485, EtherNet/IP, PROFINET

Power supply

DC 20 to 30 V

Hazardous area approvals

ATEX, IECEX, cCSAus, INMETRO, EAC

Product safety

CE, C-tick

Metrological approvals and certificates

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

Heartbeat Verification: Heartbeat Technology complies with requirements for traceable verification according to ISO 9001:2008, chapter 7.6. a (TUV attestation)

Marine approvals and certificates

LR approval, DNV GL approval, ABS approval, BV approval

Pressure approvals and certificates

PED, CRN

Liquids

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, liner and seals acc. to FDA, cGMP

Mais informações www.br.endress.com/5H1B