

Proline Promag H 100 electromagnetic flowmeter

The specialist for hygienic applications with
an ultra-compact transmitter



Več informacij in aktualne cene:

www.si.endress.com/5H1B

Prednosti:

- 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

Lastnosti na dlani

- **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

Področje uporabe: 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.

Lastnosti in specifikacije

Liquids

Merilni princip

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

Več informacij www.si.endress.com/5H1B