

Proline Promass G 100 coriolis-flowmeter

De meest compacte hogedruksensor met een ultracompacte transmitter



Voordelen:

- Eenvoudige en veilige procesintegratie – aansluitingen met schroefdraad
- Minder procesmeetpunten – multivariabele meting (flow, dichtheid, temperatuur)
- Ruimtebesparende installatie – geen in-/uitlaatlengten
- Ruimtebesparende transmitter – volledige functionaliteit in een zeer kleine ruimte
- Tijdbesparende lokale bediening zonder aanvullende software en hardware – geïntegreerde webserver
- Geïntegreerde verificatie – Heartbeat Technology

Overzicht specificaties

- **Max. meetfout** Mass flow (liquid): $\pm 0.15\%$ Volume flow (liquid): $\pm 0.15\%$ Mass flow (gas): $\pm 0.75\%$ Density (liquid): $\pm 0.0005 \text{ g/cm}^3$
- **Measuring range** 0 to 18 000 kg/h (0 to 662 lb/min)
- **Medium temperature range** -50 to $+150 \text{ }^\circ\text{C}$ (-58 to $+302 \text{ }^\circ\text{F}$)
- **Max. process pressure** 350 bar (5080 psi)
- **Wetted materials** Measuring tube: 1.4435 (316L) Connection: 1.4404 (316/316L)

Toepassingsgebied: De Promass G levert veilige en nauwkeurige metingen van vloeistoffen en gassen in hogedruktoepassingen tot 350 bar (5080 psi). Breekplaat- en procesaansluitingen met schroefdraad zorgen voor een eenvoudige en veilige integratie. Samen met de kleinste transmitter die op dit moment verkrijgbaar is, levert het instrument uitstekende prestaties in een zeer kleine ruimte. De Promass G 100 is speciaal ontworpen voor toepassingen waarbij de ruimte beperkt is,

Meer informatie en actuele prijzen:

www.be.endress.com/8G1B

waardoor deze boven aan het lijstje van systeemintegrators, skidbouwers en productfabrikanten staat.

Kenmerken en specificaties

Liquids

Meetprincipe

Coriolis

Product headline

Most compact high-pressure sensor with an ultra-compact transmitter. Accurate measurement of liquids and gases in high-pressure applications.

Sensor features

Easy and safe process integration – threaded connections. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space - saving installation – no in-/outlet run needs. Internal threads as process connection. Process pressure up to 350 bar (5080 psi). Rupture disc available.

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. Pre - configured plug connector. Local display available.

Nominal diameter range

DN 8 to 25 ($\frac{3}{8}$ to 1")

Wetted materials

Measuring tube: 1.4435 (316L)

Connection: 1.4404 (316/316L)

Measured variables

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

Liquids

Max. meetfoutMass flow (liquid): $\pm 0.15\%$ Volume flow (liquid): $\pm 0.15\%$ Mass flow (gas): $\pm 0.75\%$ Density (liquid): $\pm 0.0005 \text{ g/cm}^3$ **Measuring range**

0 to 18 000 kg/h (0 to 662 lb/min)

Max. process pressure

350 bar (5080 psi)

Medium temperature range -50 to $+150$ °C (-58 to $+302$ °F)**Ambient temperature range** -40 to $+60$ °C (-40 to $+140$ °F)Option: -50 to $+60$ °C (-58 to $+140$ °F)**Sensor housing material**

1.4301 (304), corrosion resistant

Transmitter housing material

Compact: AlSi10Mg, coated

Compact/ultra - compact: 1.4301 (304)

Degree of protection

IP66/67, type 4X enclosure

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

Liquids

Digital communication

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

Power supply

DC 20 to 30 V

Hazardous area approvals

ATEX, IECEx, cCSAus, INMETRO, NEPSI, EAC

Product safety

CE, C-Tick, EAC marking

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)

Material certificates

3.1 material

Gas

Meetprincipe

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Gas

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Max. meetfout

Mass flow (liquid): ± 0.15 %

Volume flow (liquid): ± 0.15 %

Mass flow (gas): ± 0.75 %

Density (liquid): ± 0.0005 g/cm³

Measuring range

0 to 18 000 kg/h (0 to 662 lb/min)

Max. process pressure

350 bar (5080 psi)

Medium temperature range

-50 to +150 °C (-58 to +302 °F)

Ambient temperature range

-40 to +60 °C (-40 to +140 °F)

Option: -50 to +60 °C (-58 to +140 °F)

Sensor housing material

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Density/Concentration**Max. meetfout**Mass flow (liquid): $\pm 0.15\%$ Volume flow (liquid): $\pm 0.15\%$ Mass flow (gas): $\pm 0.75\%$ Density (liquid): $\pm 0.0005 \text{ g/cm}^3$

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Pressure approvals and certificates

CRN

Material certificates

3.1 material

Meer informatie www.be.endress.com/8G1B