Proline Promass A 100 coriolis-flowmeter

De enkelbuis flowmeter voor het meten van zeer kleine flows met een ultracompacte transmitter

Meer informatie en actuele prijzen:
www.be.endress.com/8A1B

Voordelen:

- Maximale procesveiligheid - zelflozende meetbuis
- 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): ±0.1 % Volume flow (liquid): ±0.1 % Mass flow (gas): ±0.5 % Density (liquid): ±0.0005 g/cm³
- **Measuring range** 0 to 450 kg/h (0 to 16.5 lb/min)
- **Medium temperature range** −50 to +205 °C (−58 to +401 °F)
- **Max. process pressure** PN 40, Class 300, 20K, 400 bar (5800 psi)
- **Wetted materials** Measuring tube: 1.4539 (904L); Alloy C22, 2.4602 (UNS N06022) Connection: 1.4539 (904L); Alloy C22, 2.4602 (UNS N06022); 1.4404 (316/316L)

Toepassingsgebied: De Promass A staat bekend om zijn zeer nauwkeurige metingen van kleine hoeveelheden vloeistoffen en gassen onder hoge en lage druk. Samen met de kleinste transmitter die op dit moment verkrijgbaar is, levert het instrument uitstekende prestaties in een zeer kleine ruimte. De Promass A 100 heeft de voorkeur van systeemintegrators, skidbouwers en productfabrikanten. Het instrument

is leverbaar met een ultracompacte hygiënische roestvrijstalen behuizing, waardoor het zelfs in de meest compacte installaties kan worden geplaatst.

Kenmerken en specificaties

Gas

Meetprincipe
Coriolis

Product headline
The single-tube flowmeter for smallest flow quantities with an ultra-compact transmitter.
Measuring accurately smallest quantities of liquids and gases for continuous process control.

Sensor features
Highest process safety – self - drainable measuring tube design. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space - saving installation – no in-/outlet run needs. Nominal diameter: DN 1 to 4 (1/24 to 1/8"). Process pressure up to 400 bar (5800 psi). Medium temperature up to +205 °C (+401 °F).

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. Highest degree of protection: IP69. Local display available.

Nominal diameter range
DN 1 to 4 (1/24 to 1/8")

Wetted materials
Measuring tube: 1.4539 (904L); Alloy C22, 2.4602 (UNS N06022)
Connection: 1.4539 (904L); Alloy C22, 2.4602 (UNS N06022); 1.4404 (316/316L)

Gas

Measured variables
Mass flow, density, temperature, volume flow, corrected volume flow, reference density, concentration

Max. meetfout
Mass flow (liquid): ±0.1 %
Volume flow (liquid): ±0.1 %
Mass flow (gas): ±0.5 %
Density (liquid): ±0.0005 g/cm³

Measuring range
0 to 450 kg/h (0 to 16.5 lb/min)

Max. process pressure
PN 40, Class 300, 20K, 400 bar (5800 psi)

Medium temperature range
–50 to +205 °C (–58 to +401 °F)

Ambient temperature range
Standard: –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
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

Gas

Outputs
4 - 20 mA HART (active)
Pulse/frequency/switch output (passive)

Inputs
None

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

Other approvals and certificates

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)

Pressure approvals and certificates
CRN

Material certificates
3.1 material

Hygienic approvals and certificates
3-A, EHEDG, cGMP

Density/Concentration

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Density/Concentration

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Liquids

Meetprincipe
Coriolis

Liquids

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Wetted materials

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