

Proline Promass A 200 Medidor de vazão Coriolis

Medidor de vazão genuinamente alimentado pelo loop para medição precisa em baixas vazões.



Mais informações e preço atual:

www.br.endress.com/8A2B

Benefícios:

- Instalação que economiza espaço - compacto, sensor muito leve
- Maior qualidade de produto - design de tubo único e auto-drenável em todos os diâmetros
- Segurança de processo ideal - resistente a condições de ambiente corrosivo e obstrução interna
- Cabeamento conveniente - compartimento de conexão separado
- Operação segura - sem necessidade de abertura do dispositivo devido a display com tela sensível ao toque e iluminação
- Verificação Integrada - Heartbeat Technology

Especificações resumidas

- **Max. measurement error** Mass flow (liquid): $\pm 0.1\%$ Volume flow (liquid): $\pm 0.1\%$ Mass flow (gas): $\pm 0.35\%$ Density (liquid): $\pm 0.0005 \text{ g/cm}^3$
- **Measuring range** 0 to 450 kg/h (0 to 16.54 lb/min)
- **Medium temperature range** -50 to 205 °C (-58 to 401 °F)
- **Max. process pressure** 430.9 bar (6250 psi)
- **Wetted materials** Measuring tube: stainless steel, 1.4435 (316/316L); Alloy C22

Campo de aplicação: O compacto Promass A é ideal para controle de processos em aplicações exigentes. Seu sistema único de um tubo auto drenável permite medição precisa de líquidos e gases nas vazões mais baixas e em altas pressões. Com sua tecnologia genuína de alimentação pelo loop e o design intrinsecamente seguro (Ex ia), Promass A 200

oferece maior segurança operacional em áreas classificadas. A Heartbeat Technology garante a segurança de processo.

Características e especificações

Density/Concentration

Measuring principle

Coriolis

Product headline

Genuine loop-powered flowmeter for accurate measurement of lowest flow rates.

Suitable for applications with smallest flow quantities in the chemical industry.

Sensor features

Space-saving installation – compact, lightweight sensor. Highest product quality – self-drainable measuring tube design in all line sizes. Optimum process safety – resistant to corrosive ambient conditions and internal clogging.

Nominal diameter: DN 1 to 4 ($\frac{1}{2}$ " to $\frac{1}{8}$ "). Process pressure up to 430.9 bar (6250 psi). Medium temperature up to +205 °C (+401 °F).

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 1 to 4 ($\frac{1}{2}$ " to $\frac{1}{8}$ ")

Wetted materials

Measuring tube: stainless steel, 1.4435 (316/316L); Alloy C22

Measured variables

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

Density/Concentration**Max. measurement error**Mass flow (liquid): ± 0.1 %Volume flow (liquid): ± 0.1 %Mass flow (gas): ± 0.35 % Density (liquid): ± 0.0005 g/cm³

Measuring range0 to 450 kg/h (0 to 16.54 lb/min)

Max. process pressure430.9 bar (6250 psi)

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

Ambient temperature range-40 to 60 °C (-40 to +140 °F)

Sensor housing materialStainless steel, 1.4404 (316L)

Transmitter housing material

Stainless steel, CF-3M (316L, 1.4404)

AlSi10MG, coated

Degree of protectionIP66/67, Type 4X enclosure

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)

4 - 20 mA (passive)

Pulse/frequency/switch output (passive)

InputsNone

Density/Concentration**Digital communication**

HART, PROFIBUS PA, FOUNDATION Fieldbus

Power supply

DC 18 to 35 V (4 - 20 mA HART with/without pulse/frequency/switch)

DC 18 to 30 V (20 mA HART, 4 - 20 mA)

DC 9 to 32 V (PROFIBUS PA)

Hazardous area approvals

ATEX, IECEx, cCSAus, INMETRO, NEPSI, 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

PED, CRN

Material certificates

3.1 material

Hygienic approvals and certificates

3-A, cGMP

Liquids**Measuring principle**

Coriolis

Liquids

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