

코리올리스 유량계 Proline Promass A 500

최대 4개의 I/O를 지원하는 리모트 버전의 미소 유량용 싱글 튜브 유량계



추가 정보 및 현재 가격:

www.kr.endress.com/8A5C

장점:

- 좁은 공간에도 설치 가능 - 컴팩트한 경량 센서
- 최고의 제품 품질 - 모든 배관 크기를 위한 자가 배출식 측정 튜브 설계
- 최고의 프로세스 안전성 - 내부식성 및 내부 막힘 방지
- 완전한 프로세스 및 진단 정보 액세스 - I/O와 Fieldbus를 자유롭게 결합
- 복잡성 및 변동성 최소화 - I/O 기능의 자유로운 구성
- 통합/자가 검증 - 하트비트 기술(Heartbeat Technology)

사양 정보

- **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

적용 분야: 컴팩트한 Promass A는 고난도 어플리케이션에서 연속 프로세스 제어에 이상적인 솔루션입니다. 혁신적인 자가 배출식 싱글 튜브 시스템으로 미소 유량과 높은 압력에서 액체와 기체를 정확하게 측정합니다.

Promass A 500은 혁신적인 리모트 트랜스미터를 통해 고난도 환경에서 설치 유연성과 작동 안전성을 극대화합니다. 또한 하트비트 기술(Heartbeat Technology)을 통해 신뢰할 수 있는 측정값을 보장하고 각종 법률적 규제를 준수합니다.

특징 및 사양

Gas

측정 원리

Coriolis

Product headline

Single-tube flowmeter for accurate measurement of lowest flow rates, as remote version with up to 4 I/Os. Suitable for applications with smallest flow quantities in all industries.

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 ($\frac{1}{24}$ to $\frac{1}{8}$ "). Process pressure up to 430.9 bar (6250 psi).

Transmitter features

Full access to process and diagnostic information – numerous, freely combinable I/Os and fieldbuses. Reduced complexity and variety – freely configurable I/O functionality. Integrated verification – Heartbeat Technology. Remote version with up to 4 I/Os. Backlit display with touch control and WLAN access.

Nominal diameter rangeDN 1 to 4 ($\frac{1}{24}$ 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

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

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

Gas

Max. process pressure

430.9 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 material

Stainless steel, 1.4404 (316L)

Transmitter housing material

AlSi10Mg, coated; 1.4409 (CF3M) similar to 316L; Polycarbonat

Degree of protection

Sensor remote version (standard): IP66/67, type 4X enclosure

Sensor remote version (option): IP69.

Transmitter remote version: IP66/67, Type 4X enclosure

Display/Operation

4-line backlit display with touch control (operation from outside)

Configuration via local display and operating tools possible

Outputs

4 outputs:

4-20 mA HART (active/passive)

4-20 mA WirelessHART

4-20 mA (active/passive)

Pulse/frequency/switch output (active/passive)

Double pulse output (active/passive)

Relay output

Gas

Inputs

Status input

4-20 mA input

Digital communication

HART, PROFIBUS DP, PROFIBUS PA, FOUNDATION Fieldbus, Modbus RS485, Profinet, Ethernet/IP, OPC-UA

Power supply

DC 24 V

AC 100 to 230 V

AC 100 to 230 V / DC 24 V (non-hazardous area)

Hazardous area approvals

ATEX, IECEx, cCSAus, INMETRO, NEPSI

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

CRN

Material certificates

3.1 material

Gas

Hygienic approvals and certificates

3-A, cGMP

Density/Concentration

측정 원리

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Density/Concentration**Outputs**

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Relay output

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Status input

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Liquids

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Inputs

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추가 정보 www.kr.endress.com/8A5C