

전자 유량계

Proline Promag W 300

컴팩트하고 접근이 용이한 트랜스미터가 장착된
상하수 처리 어플리케이션용 유량계



추가 정보 및 현재 가격:

www.kr.endress.com/5W3B

장점:

- 0 x DN 인렛 런으로 압력 손실없이 일정한 정확도로 안정적인 측정 가능
- 유연한 엔지니어링 - 용접 또는 랩 조인트 프로세스 연결부가 있는 센서
- 신뢰할 수 있는 측정 - 0 DN 전단 직관부에서도 정확한 측정값 제공
- 장시간 운영 가능 - 견고하고 완전히 용접된 센서
- 완전한 프로세스 및 진단 정보 액세스 - I/O와 Fieldbus를 자유롭게 결합
- 복잡성 및 변동성 최소화 - I/O 기능의 자유로운 구성
- 통합/자가 검증 - 하트비트(Heartbeat) 기술

사양 정보

- **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), Flat Spec
- **Measuring range** 9 dm³/min to 162 000 m³/h (2.5 gal/min to 100 000 gal/min)
- **Medium temperature range** Liner material hard rubber: 0 to +80 °C (+32 to +176 °F) Liner material polyurethane: -20 to +50 °C (-4 to +122 °F) Liner material PTFE: -20 to +90 °C (-4 to +194 °F)
- **Max. process pressure** PN 40, Class 300, 20K
- **Wetted materials** Liner: Polyurethane; Hard rubber, PTFE
Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum

적용 분야: 프리미엄 상하수 측정 계기인 Promag W 300은 방폭 지역과 가혹한 조건에서도 안정적으로 작동하는 신뢰할 수 있는 유량계입니다. 컴팩트한 트랜스미터 덕분에 한쪽 액세스, 원격 디스플레이, 향상된 연결 옵션 등 작동과 시스템 통합 측면에서 매우 유연합니다. 또한 하트비트(Heartbeat) 기술을 통해 측정값의 신뢰도와 적합성 검증을 보장합니다

특징 및 사양

Liquids

측정 원리

Electromagnetic

Product headline

Specialist for demanding water and wastewater applications with a compact, easily accessible transmitter.

Reliable measurement at constant accuracy with 0 x DN inlet run and no pressure loss.

Dedicated to the measurement of industrial or municipal water and wastewater .

Sensor features

Flexible engineering – sensor with fixed or lap-joint process connections. Long-term operation – robust and completely welded sensor. Improved plant availability – sensor compliant with industry-specific requirements. International drinking water approvals.

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.

Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access. Remote display available.

Nominal diameter range

DN 25 to 2400(1 to 90")

Wetted materials

Liner: Polyurethane; Hard rubber, PTFE

Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum

Measured variables

Volume flow, conductivity, mass flow

Liquids

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), Flat Spec

Measuring range

9 dm³/min to 162 000 m³/h (2.5 gal/min to 100 000 gal/min)

Max. process pressure

PN 40, Class 300, 20K

Medium temperature range

Liner material hard rubber: 0 to +80 °C (+32 to +176 °F)

Liner material polyurethane: -20 to +50 °C (-4 to +122 °F)

Liner material PTFE: -20 to +90 °C (-4 to +194 °F)

Ambient temperature range

Flange material carbon steel: -10 to +60 °C (+14 to +140 °F)

Flange material stainless steel: -40 to +60 °C (-40 to +140 °F)

Sensor housing material

DN 25 to 300 (1 to 12"): AlSi10Mg, coated

DN 25 to 2400 (1 to 90"): Carbon steel with protective varnish

Sensor connection housing (standard): AlSi10Mg, coated

Sensor connection housing (option): Polycarbonate; 1.4409 (CF3M) similar to 316L

Transmitter housing material

AlSi10Mg, coated; 1.4409 (CF3M) similar to 316L; stainless steel for hygienic transmitter design

Display/Operation

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

Configuration via local display and operating tools possible

Remote display available

Liquids

Outputs

3 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

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, Nepsi, INMETRO, UK Ex

Product safety

CE, C-tick, EAC marking

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), NAMUR

Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

Liquids

Marine approvals and certificates

LR approval, DNV GL approval, ABS approval, BV approval

Pressure approvals and certificates

CRN, PED

Material certificates

3.1 material

Hygienic approvals and certificates

ACS, KTW/W270, NSF 61, WRAS BS 6920

추가 정보 www.kr.endress.com/5W3B