

Proline Promass X 300 Przepływomierz masowy Coriolisa

Czterorurowy przepływomierz o największych zakresach pomiarowych, z kompaktowym przetwornikiem.



More information and current pricing:

www.pl.endress.com/8X3B

Korzyści:

- Większy zysk – pojedynczy punkt instalacji zapewniający maksymalną dokładność nawet przy dużych wartościach przepływu
- Mniej punktów pomiarowych w instalacji – pomiar wieloparametrowy (przepływ, gęstość, temperatura)
- Niewielka przestrzeń montażowa – nie wymaga prostych odcinków dolotowych i wylotowych
- Pełny dostęp do danych procesowych i informacji diagnostycznych – liczne, dowolnie łączone we/wy i magistrale obiektowe
- Mniejsza złożoność – dowolnie konfigurowalne funkcje wejścia/wyjścia
- Zintegrowana diagnostyka i weryfikacja – technologia Heartbeat

Kluczowe parametry

- **Maksymalny błąd pomiaru** Mass flow (liquid): $\pm 0.10\%$ (standard), 0.05% (option) Volume flow (liquid): $\pm 0.10\%$ Mass flow (gas): $\pm 0.35\%$ Density (liquid): $\pm 0.0005\text{ g/cm}^3$
- **Zakres pomiarowy** 0 to 4100 t/h (0 to 4520 tn. sh./h)
- **Zakres temperatury medium** -50 to $+180\text{ }^\circ\text{C}$ (-58 to $+356\text{ }^\circ\text{F}$)
- **Maks. ciśnienie procesu** PN 100, Class 600
- **Materiały w kontakcie z medium** Measuring tube: 1.4404 (316/316L) Connection: 1.4404 (316/316L)

Zastosowanie: Opatentowany czterorurowy przepływomierz Promass X zapewnia najwyższą dokładność (0,05%), największy zakres pomiarowy, oraz wyjątkową w zastosowaniach lądowych i morskich w przemyśle naftowym i gazownictwie. Dzięki компактowemu przetwornikowi Promass X 300 jest bardzo wygodny pod względem obsługi i integracji z systemem: dostęp z jednej strony, zdalny wyświetlacz i udoskonalone

opcje łączności. Wbudowana technologia Heartbeat pozwala przeprowadzić diagnostykę i weryfikację bez przerywania pomiaru. Zapewnia bezpieczeństwo i zgodność z obowiązującymi przepisami.

Funkcje i specyfikacja

Density/Concentration

Zasada pomiaru

Coriolis

Product headline

Highest capacity four-tube flowmeter with a compact, easily accessible transmitter. For highest flow rates and outstanding performance in on/offshore applications in the oil and gas industry.

Sensor features

Increased profit – single installation point providing premium accuracy for large quantities. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in/outlet run needs. Nominal diameter: DN 300 to 400 (12 to 16"). Four-tube system with low pressure drop.

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.

Średnica nominalna

DN 300 to 400 (12 to 16")

Materiały w kontakcie z medium

Measuring tube: 1.4404 (316/316L)

Connection: 1.4404 (316/316L)

Wielkości mierzone

Mass flow, density, temperature, volume flow, corrected volume flow (API tables), reference density, concentration

Density/Concentration**Maksymalny błąd pomiaru**

Mass flow (liquid): ± 0.10 % (standard), 0.05 % (option)

Volume flow (liquid): ± 0.10 %

Mass flow (gas): ± 0.35 %

Density (liquid): ± 0.0005 g/cm³

Zakres pomiarowy

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Maks. ciśnienie procesu

PN 100, Class 600

Zakres temperatury medium

-50 to +180 °C (-58 to +356 °F)

Temperatura otoczenia

Standard: -40 to +60 °C (-40 to +140 °F)

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

Materiał obudowy czujnika

1.4404 (316L), highest corrosion resistance

Materiał obudowy przetwornika

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

Stopień ochrony

IP66/67, type 4X enclosure

Wyświetlacz

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

Configuration via local display and operating tools possible

Remote display available"

Density/Concentration**Wyjścia**

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

Wejścia

Status input

4-20 mA input

Komunikacja cyfrowa

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

Zasilacz

DC 24 V

AC 100 to 230 V

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

Dopuszczenia do stosowania w strefach zagrożonych wybuchem

ATEX, IECEx, cCSAus, NEPSI, INMETRO, EAC

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

Density/Concentration**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)

MI-005 Liquids other than water (Hydrocarbons), LPG, cryogenic
MI-002, PTB

Marine approvals and certificates

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

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

NACE MR0175/MR0103, PMI; welding test acc. to EN ISO, ASME, NORSOK

Ciecze**Zasada pomiaru**

Coriolis

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