Proline Cubemass C 300
Masowy przepływomierz Coriolisa

Ultra kompaktowy czujnik do pomiaru minimalnych strumieni przepływu z innowacyjnym i przyjaznym dla użytkownika przetwornikiem.

Więcej informacji i aktualne ceny:
www.pl.endress.com/8C3B

Korzyści:

- Instalacja zajmująca mało miejsca - kompaktowa konstrukcja jednorurowa
- Mniej procesowych punktów pomiarowych – jednoczesny pomiar wielu parametrów (przepływu, gęstości, temperatury)
- Odpowiedni do skidów pomiarowych - lekkie czujniki
- Pełny dostęp do informacji o procesie oraz diagnostyki - liczne, swobodnie konfigurowalne kombinacje wejść/wyjść oraz protokołów komunikacyjnych
- Uniwersalność i funkcjonalność – swoboda w konfiguracji i funkcjonalności modułów We/Wy
- Wbudowane funkcje weryfikacji i diagnostyki – Technologia Heartbeat

Kluczowe parametry

- **Maksymalny błąd pomiaru** Mass flow (liquid): ±0.10 % Volume flow (liquid): ±0.10 % Mass flow (gas): ±0.50 % Density (liquid): ±0.0005 g/cm3
- **Zakres pomiarowy** 0 to 1000 kg/h (0 to 37 lb/min)
- **Zakres temperatury medium** −50 to +205 °C (−58 to +401 °F)
- **Maks. ciśnienie procesu** PN 40, Class 300, 10K, 400 bar (5800 psi)
- **Materiały w kontakcie z medium** Measuring tube: 1.4539 (904L) Connection: 1.4539 (904L); 1.4404 (316/316L)

Zastosowanie: Cubemass C to ultrakompaktowy czujnik do pomiaru przepływów o minimalnych wartościach. Nawet w zastosowaniach wysokociśnieniowych gwarantuje bezkompromisową dokładność

pomiaru. Kompaktowy przetwornik pomiarowy Cubemass C 300 oferuje wysoką elastyczność obsługi oraz integracji w systemach sterowania: wygodne opcje dostępu, zdalny wyświetlacz, bogate możliwości komunikacyjne. Heartbeat Technology gwarantuje wiarygodność pomiarów i weryfikację zgodności.

Funkcje i specyfikacja

Density/Concentration

Zasada pomiaru

Coriolis

Product headline

Compact sensor for smallest quantities with a compact, easily accessible transmitter. Measuring accurately smallest quantities of liquids and gases.

Sensor features

Space-saving installation – compact single-tube design. Fewer process measuring points – multivariable measurement (flow, density, temperature). Suitable for skids – lightweight sensor. Nominal diameter: DN 1 to 6 (1/24 to ¼"). Process pressure up to 400 bar (5800 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. Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access.

Średnica nominalna

DN 1 to 6 (1/24 to ¼")

Materiały w kontakcie z medium

Measuring tube: 1.4539 (904L)
Connection: 1.4539 (904L); 1.4404 (316/316L)

Density/Concentration

Wielkości mierzone
Mass flow, density, temperature, volume flow, corrected volume flow, reference density, concentration

Maksymalny błąd pomiaru
Mass flow (liquid): ±0.10 % Volume flow (liquid): ±0.10 % Mass flow (gas): ±0.50 % Density (liquid): ±0.0005 g/cm3

Zakres pomiarowy
0 to 1000 kg/h (0 to 37 lb/min)

Maks. ciśnienie procesu
PN 40, Class 300, 10K, 400 bar (5800 psi)

Zakres temperatury medium
−50 to +205 °C (−58 to +401 °F)

Temperatura otoczenia
Standard: −40 to +60 °C (−40 to +140 °F)
Option: −50 to +60 °C (−58 to +140 °F)

Materiał obudowy czujnika
1.4301 (304), corrosion resistant

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

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)

Density/Concentration

Pressure approvals and certificates
CRN

Material certificates
3.1 material

Gaz

Zasada pomiaru
Coriolis

Product headline
Compact sensor for smallest quantities with a compact, easily accessible transmitter. Measuring accurately smallest quantities of liquids and gases.

Sensor features
Space-saving installation – compact single-tube design. Fewer process measuring points – multivariable measurement (flow, density, temperature). Suitable for skids – lightweight sensor. Nominal diameter: DN 1 to 6 (1/24 to ¼"). Process pressure up to 400 bar (5800 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. Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access.

Średnica nominalna
DN 1 to 6 (1/24 to ¼")

Materiały w kontakcie z medium
Measuring tube: 1.4539 (904L)
Connection: 1.4539 (904L); 1.4404 (316/316L)

Wielkości mierzone
Mass flow, density, temperature, volume flow, corrected volume flow, reference density, concentration

Gaz

Maksymalny błąd pomiaru

Mass flow (liquid): ±0.10 %
Volume flow (liquid): ±0.10 %
Mass flow (gas, Tantalum only): ±0.50 %
Density (liquid): ±0.0005 g/cm³

Zakres pomiarowy

0 to 1000 kg/h (0 to 37 lb/min)

Maks. ciśnienie procesu

PN 40, Class 300, 10K, 400 bar (5800 psi)

Zakres temperatury medium

Tantalum: −50 to +150 °C (−58 to +302 °F)
Zirconium: −50 to +205 °C (−58 to +401 °F)

Temperatura otoczenia

Standard: −40 to +60 °C (−40 to +140 °F)
Option: −50 to +60 °C (−58 to +140 °F)

Materiał obudowy czujnika

1.4301 (304), corrosion resistant

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"

Gaz

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

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)

Gaz

Pressure approvals and certificates
PED, CRN

Material certificates
3.1 material

Ciecze

Zasada pomiaru
Coriolis

Product headline
Compact sensor for smallest quantities with a compact, easily accessible transmitter. Measuring accurately smallest quantities of liquids and gases.

Sensor features
Space-saving installation – compact single-tube design. Fewer process measuring points – multivariable measurement (flow, density, temperature). Suitable for skids – lightweight sensor. Nominal diameter: DN 1 to 6 (1/24 to ¼"). Process pressure up to 400 bar (5800 psi).

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Średnica nominalna
DN 1 to 6 (1/24 to ¼")

Materiały w kontakcie z medium
Measuring tube: 1.4539 (904L)
Connection: 1.4539 (904L); 1.4404 (316/316L)

Wielkości mierzone
Mass flow, density, temperature, volume flow, corrected volume flow, reference density, concentration

Ciecze

Maksymalny błąd pomiaru

Mass flow (liquid): ±0.10 %
Volume flow (liquid): ±0.10 %
Mass flow (gas): ±0.50 %
Density (liquid): ±0.0005 g/cm3

Zakres pomiarowy

0 to 1000 kg/h (0 to 37 lb/min)

Maks. ciśnienie procesu

PN 40, Class 300, 10K, 400 bar (5800 psi)

Zakres temperatury medium

−50 to +205 °C (−58 to +401 °F)

Temperatura otoczenia

Standard: −40 to +60 °C (−40 to +140 °F)
Option: −50 to +60 °C (−58 to +140 °F)

Materiał obudowy czujnika

1.4301 (304), corrosion resistant

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

Ciecze

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

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)

Ciecze

Pressure approvals and certificates

CRN

Material certificates

3.1 material

Więcej informacji **www.pl.endress.com/8C3B**

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