

# Proline Cubemass C 100 coriolis-flowmeter

## Compacte sensor voor minimale hoeveelheden met een ultracompacte transmitter



Meer informatie en actuele prijzen:

[www.be.endress.com/8C1B](http://www.be.endress.com/8C1B)

### Voordelen:

- Ruimtebesparende installatie – compacte, enkelbuis-ontwerp
- Minder procesmeetpunten – multivariabele meting (flow, dichtheid, temperatuur)
- Geschikt voor skids – lichtgewicht sensor
- Ruimtebesparende transmitter – volledige functionaliteit in een zeer kleine ruimte
- Tijdbesparende lokale bediening zonder aanvullende software en hardware – geïntegreerde webserver
- Geïntegreerde verificatie – Heartbeat Technology

### Overzicht specificaties

- **Max. meetfout** Mass flow (liquid):  $\pm 0.1\%$  Volume flow (liquid):  $\pm 0.1\%$  Mass flow (gas):  $\pm 0.5\%$  Density (liquid):  $\pm 0.0005 \text{ g/cm}^3$
- **Measuring range** 0 to 1000 kg/h (0 to 37 lb/min)
- **Medium temperature range**  $-50$  to  $+205 \text{ }^\circ\text{C}$  ( $-58$  to  $+401 \text{ }^\circ\text{F}$ )
- **Max. process pressure** PN 40, Class 300, 10K, 400 bar (5800 psi)
- **Wetted materials** Measuring tube: 1.4539 (904L) Connection: 1.4539 (904L); 1.4404 (316/316L)

**Toepassingsgebied:** De Cubemass C is de ideale sensor voor het meten van minimale flows in skids, testtrigs en industriële robotica. De nauwkeurigheid wordt niet beïnvloed door hoge drukken of wisselende flowomstandigheden. De ultracompacte transmitter levert maximale prestaties in een zeer kleine ruimte en zorgt voor naadloze systeemintegratie. Bovendien garandeert de Heartbeat Technology betrouwbare metingen en verificaties volgens de regels.

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## Kenmerken en specificaties

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### Density/Concentration

**Meetprincipe**

Coriolis

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**Product headline**

Compact sensor for smallest quantities with an ultra-compact transmitter.

Measuring accurately smallest quantities of liquids and gases.

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**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 ( $\frac{1}{24}$  to  $\frac{1}{4}$ "). Process pressure up to 400 bar (5800 psi). Medium temperature up to +205 °C (+401 °F).

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**Transmitter features**

Space - saving transmitter – full functionality on the smallest footprint.  
Time - saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology.  
Robust, ultra-compact transmitter housing. Pre - configured plug connector. Local display available.

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**Nominal diameter range**

DN 1 to 6 ( $\frac{1}{24}$  to  $\frac{1}{4}$ ")

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**Wetted materials**

Measuring tube: 1.4539 (904L)

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

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**Measured variables**

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

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**Density/Concentration****Max. meetfout**Mass flow (liquid):  $\pm 0.1$  %Volume flow (liquid):  $\pm 0.1$  %Mass flow (gas):  $\pm 0.5$  %Density (liquid):  $\pm 0.0005$  g/cm<sup>3</sup>

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**Measuring range**0 to 1000 kg/h (0 to 37 lb/min)

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**Max. process pressure**PN 40, Class 300, 10K, 400 bar (5800 psi)

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

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**Ambient temperature range**

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

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

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**Sensor housing material**1.4301 (304), corrosion resistant

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**Transmitter housing material**

Compact: AlSi10Mg, coated

Compact/ultra - compact: 1.4301 (304)

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**Degree of protection**Standard: IP66/67, type 4X enclosure

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**Display/Operation**

4 - line backlit display available (no local operation)

Configuration via web browser and operating tools possible

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**Outputs**

4 - 20 mA HART (active)

Pulse/frequency/switch output (passive)

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**Inputs**None

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**Density/Concentration****Digital communication**

HART, Modbus RS485, EtherNet/IP, PROFIBUS DP, PROFINET

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**Power supply**

DC 20 to 30 V

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**Hazardous area approvals**

ATEX, IECEx, cCSAus, INMETRO, NEPSI

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**Product safety**

CE, C-Tick

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**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)

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**Pressure approvals and certificates**

CRN

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**Material certificates**

3.1 material

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**Liquids****Meetprinciple**

Coriolis

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Compact sensor for smallest quantities with an ultra-compact transmitter.

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## Liquids

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Mass flow (liquid):  $\pm 0.1$  %

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## Gas

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Coriolis

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