

## Cubemass DCI Coriolis flowmeter

Compact sensor for smallest quantities with  
seamless system integration



Daha fazla bilgi ve güncel fiyatlandırma:

[www.tr.endress.com/8CN](http://www.tr.endress.com/8CN)

### Avantajlar:

- Measuring accurately smallest quantities of liquids and gases
- Space-saving installation – compact single-tube design
- Fewer process measuring points – multivariable measurement (flow, density, temperature)
- Suitable for skids – lightweight sensor
- High flexibility in system integration – wide range of communication interfaces
- Fast commissioning – pre-configured devices
- Automatic recovery of data for servicing

### Özelliklere genel bakış

- **Max. measurement error** 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>
- **Measuring range** 0 to 1000 kg/h (0 to 37 lb/min)
- **Medium temperature range**  $-50$  to  $+200$  °C ( $-58$  to  $+392$  °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)

**Uygulama alanı:** Cubemass DCI is the proven sensor for the measurement of smallest flow rates in skids, test rigs and industrial robotics, e.g. in applications like lacquering or surface finishing. Neither high pressure nor alternating flow conditions compromise its accuracy. Equipment manufacturers value Cubemass CDI as compact Coriolis sensor with various communication possibilities.

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## Özellikler ve şartlar

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Gas

### Measuring principle

Coriolis

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### Product headline

Compact sensor for smallest quantities with seamless system integration. 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 ( $\frac{1}{2}$ " to  $\frac{1}{4}$ "). Process pressure up to 400 bar (5800 psi). Medium temperature up to +200 °C (+392 °F).

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### Transmitter features

High flexibility in system integration – wide range of communication interfaces. Fast commissioning – pre-configured devices. Automatic recovery of data for servicing. Device as compact or remote version. Flexible outputs. Modbus RS485.

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### Nominal diameter range

DN 1 to 6 ( $\frac{1}{2}$ " to  $\frac{1}{4}$ ")

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### Wetted materials

Measuring tube: 1.4539 (904L)  
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### Measured variables

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

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### Max. measurement error

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

**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 +200 °C (-58 to +392 °F)

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**Ambient temperature range**

Standard: -20 to +60 °C (-4 to +140 °F)

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

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**Sensor housing material**

1.4301 (304), corrosion resistant

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**Transmitter housing material**

Powder - coated die - cast aluminium

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**Degree of protection**

IP67, type 4X enclosure. Remote transmitter: IP67, type 4X enclosure

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**Display/Operation**

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

Configuration via local display and operating tools possible

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**Outputs**

4 modular outputs:

0 - 20 mA (active)/4 - 20 mA (active/passive)

Pulse/frequency/switch output (passive), phase - shifted pulse

Relay

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**Inputs**

1 modular input: status

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**Digital communication**

HART, Modbus RS485

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**Gas****Power supply**

DC 16 to 62 V

AC 85 to 260 V (45 to 65 Hz)

AC 20 to 55 V (45 to 65 Hz)

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**Hazardous area approvals**

ATEX, IECEx, NEC/CEC, NEPSI

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**Other approvals and certificates**

3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR, SIL  
CRN

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**Liquids****Measuring principle**

Coriolis

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CRN

### 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

### Material certificates

3.1 material

Ayrıntılı bilgi [www.tr.endress.com/8CN](http://www.tr.endress.com/8CN)