

# CNGmass DCI coriolis-flowmeter

## Tanktoepassing flowmeter met naadloze systeemintegratie



Meer informatie en actuele prijzen:

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

### Voordelen:

- Uitstekende operationele veiligheid – betrouwbaar onder extreme procesomstandigheden
- Minder procesmeetpunten – multivariabele meting (flow, dichtheid, temperatuur)
- Ruimtebesparende installatie – geen in-/uitlaatlengten
- Hoge flexibiliteit in systeemintegratie – uitgebreide reeks van communicatie-interfaces
- Snelle inbedrijfstelling – vooringestelde instrumenten
- Automatisch herstel van gegevens voor onderhoud

### Overzicht specificaties

- **Max. meetfout** Mass flow:  $\pm 0.5$  % of batch
- **Measuring range** 0 to 150 kg/min (0 to 330 lb/min)
- **Medium temperature range**  $-50$  to  $+150$  °C ( $-58$  to  $+302$  °F)
- **Max. process pressure** 350 bar (5080 psi)
- **Wetted materials** Measuring tube: 1.4435 (316L) Connection: 1.4404 (316)

**Toepassingsgebied:** De CNGmass DCI is speciaal ontworpen voor tanken met milieuvriendelijk aardgas (CNG). Het aardgasvolume kan nauwkeurig worden gemeten en direct ter plaatse worden weergegeven. Het instrument wordt aan de buitenkant bediend via "Touch Control" en kan tijdens onderhoudswerkzaamheden in gebruik blijven. Een MODBUS-interface is bijgeleverd voor een optimale gegevensuitwisseling.

### Kenmerken en specificaties

## Liquids

### Meetprincipe

Coriolis

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### Product headline

The refueling application flowmeter with seamless system integration. Accurate measurement of compressed natural gas (CNG) in high pressure refueling applications.

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### Sensor features

Excellent operational safety – reliable under extreme process conditions. Fewer process measuring points – multivariable measurement (flow, density, temp). Space - saving installation – no in/outlet run needs. Flow rates up to 150 kg/min (330 lb/min). Process pressure up to 350 bar (5080 psi).

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### Transmitter features

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

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### Nominal diameter range

DN 8 to 25 ( $\frac{3}{8}$  to 1")

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### Wetted materials

Measuring tube: 1.4435 (316L)

Connection: 1.4404 (316)

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### Measured variables

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

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### Max. meetfout

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## Liquids

**Max. process pressure**

350 bar (5080 psi)

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**Medium temperature range**

-50 to +150 °C (-58 to +302 °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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**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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## Liquids

### Hazardous area approvals

ATEX, IECEx, NEPSI, JPN

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### Other approvals and certificates

3.1 material, calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), custody transfer

CRN

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### Metrological approvals and certificates

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), custody transfer

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### Pressure approvals and certificates

CRN

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### Material certificates

3.1 material

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## Gas

### Meetprincipe

Coriolis

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## Gas

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CRN

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