

# CNGmass Coriolis flowmeter

## Refueling application flowmeter with easy system integration



More information and current pricing:

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

### Benefits:

- Excellent operational safety – reliable under extreme process conditions
- Fewer process measuring points – multivariable measurement (flow, density, temperature)
- Space-saving installation – no in/outlet run needs
- Easy operation – reduced to application needs
- Fast commissioning – pre-configured devices
- Automatic recovery of data for servicing

### Specs at a glance

- **Max. measurement error** Mass flow:  $\pm 0.5$  % of batch
- **Measuring range** 0 to 150 kg/min (0 to 330 lb/min)
- **Medium temperature range**  $-50$  to  $+125$  °C ( $-58$  to  $+257$  °F)
- **Max. process pressure** 350 bar (5080 psi)
- **Wetted materials** Measuring tube: 1.4435 (316L) Connection: 1.4404 (316)

**Field of application:** When it comes to billing and paying for the amount of CNG actually pumped, the measuring accuracy at the dispenser is just as important as with any other fuel. Therefore, the “brain” in every CNG dispenser is a flowmeter that measures the quantity of fuel transferred from dispenser to vehicle with the absolute highest accuracy – reliability day in, day out, round the clock. These are some of the benefits of CNGmass, which has been specifically designed for such applications.

### Features and specifications

## Liquids

### Measuring principle

Coriolis

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### Product headline

The refueling application flowmeter with easy 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). Spacesaving 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

Easy operation – reduced to application needs. Fast commissioning – pre - configured devices. Automatic recovery of data for servicing. Robust, ultra - compact transmitter housing. Pulse output 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

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### Max. measurement error

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### Max. process pressure

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## Liquids

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**Medium temperature range**

-50 to +125 °C (-58 to +257 °F)

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**Ambient temperature range**

-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

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**Display/Operation**

No local operation

Configuration via operating tools possible

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**Outputs**

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

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**Inputs**

None

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**Digital communication**

Modbus RS485

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**Power supply**

DC 10 to 30 V AC 20 to 28 V

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**Hazardous area approvals**

ATEX, IECEx, NEC/CEC, FM, CSA, NEPSI, UL

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**Metrological approvals and certificates**

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

PTB, BEW, LNE, Rosstandart, NTEP approvals

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## Liquids

### Pressure approvals and certificates

CRN

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### Material certificates

3.1 material

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## Gas

### Measuring principle

Coriolis

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## Gas

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**Pressure approvals and certificates**

CRN

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**Material certificates**

3.1 material

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