

CNGmass D8CB Coriolis flowmeter

Refueling application flowmeter with easy system integration



More information and current pricing:

www.de.endress.com/D8CB

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
- Space-saving transmitter – full functionality on the smallest footprint
- Fast commissioning – pre-configured devices
- Automatic recovery of data for servicing

Specs at a glance

- **Max. measurement error** Mass flow: ± 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 (316/316L)

Field of application: The market for natural gas is still growing! Compressed natural gas has long been established as an alternative fuel for vehicles. Compressed natural gas is also considered the cleanest fuel for combustion engines. The new CNGmass is specially designed for dispensers. With this Coriolis flowmeter the mass flow can be measured with highest accuracy – independent of pressure and temperature.

Features and specifications

Gas

Measuring principle

Coriolis

Product headline

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

Sensor features

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. Flow rates up to 150 kg/min (330 lb/min). Process pressure up to 350 bar (5080 psi).

Transmitter features

Space - saving transmitter – full functionality on the smallest footprint. Fast commissioning – pre - configured devices. Automatic recovery of data for servicing. Robust, compact transmitter housing. Modbus RS485.

Nominal diameter range

DN 8 to 25 (3/8 to 1")

Wetted materials

Measuring tube: 1.4435 (316L)

Connection: 1.4404 (316/316L)

Measured variables

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

Max. measurement error

Mass flow: ±0.5 % of batch

Measuring range

0 to 150 kg/min (0 to 330 lb/min)

Max. process pressure

350 bar (5080 psi)

Gas

Medium temperature range
-50 to +125 °C (-58 to +257 °F)

Ambient temperature range
-40 to +60 °C (-40 to +140 °F)

Sensor housing material
1.4301 (304), corrosion resistant

Transmitter housing material
AlSi10Mg, coated

Degree of protection
IP66/67, type 4X enclosure

Display/Operation
No local operation
Configuration via operating tools possible

Outputs
None

Inputs
None

Digital communication
Modbus RS485

Power supply
DC 20 to 30 V

Hazardous area approvals
ATEX, IECEx, cCSAus, NEPSI, INMETRO

Other approvals and certificates
3.1 material, calibration performed on accredited calibration facilities
(acc. to ISO/IEC 17025)
CRN

Liquids

Measuring principle

Coriolis

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Metrological approvals and certificates

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

Liquids

Pressure approvals and certificates

CRN

Material certificates

3.1 material

More information www.de.endress.com/D8CB