

# LNGmass Coriolis flowmeter

## Refueling application flowmeter with easy system integration



More information and current pricing:

[www.be.endress.com/D8LB](http://www.be.endress.com/D8LB)

### Benefits:

- Excellent operational safety – reliable under extreme ambient 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 (liquid):  $\pm 0.15\%$  Volume flow (liquid):  $\pm 0.15\%$  (Reference condition)
- **Measuring range** 0 to 18 000 kg/h (0 to 660 lb/min)
- **Medium temperature range**  $-196$  to  $+125\text{ }^{\circ}\text{C}$  ( $-320$  to  $+257\text{ }^{\circ}\text{F}$ )
- **Max. process pressure** PN 40, Class 300
- **Wetted materials** Measuring tubes: 1.4539 (904L) Connection: 1.4404 (316/316L)

**Field of application:** LNGmass is a Coriolis flowmeter specifically developed for dispensers, guaranteeing highest accuracy and robustness at extreme subzero temperatures down to  $-196\text{ }^{\circ}\text{C}$  ( $-321\text{ }^{\circ}\text{F}$ ). Due to the most compact design worldwide, the device can be installed anywhere, even in the narrowest space conditions without any problem. The LNGmass has no moving parts and is, therefore, absolutely maintenance-free.

### Features and specifications

## Liquids

### Measuring principle

Coriolis

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### Product headline

Refueling application flowmeter with easy system integration. Accurate measurement of cryogenic gases in refueling applications.

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### Sensor features

Excellent operational safety – reliable under extreme ambient conditions. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space-saving installation – no in/outlet run needs. Flow rates up to 18 000 kg/h (660 lb/min). Medium temperature down to  $-196\text{ }^{\circ}\text{C}$  ( $-321\text{ }^{\circ}\text{F}$ ).

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### 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.

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### Nominal diameter range

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

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### Wetted materials

Measuring tubes: 1.4539 (904L)

Connection: 1.4404 (316/316L)

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### Measured variables

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

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### Max. measurement error

Mass flow (liquid):  $\pm 0.15\%$

Volume flow (liquid):  $\pm 0.15\%$

(Reference condition)

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### Measuring range

0 to 18 000 kg/h (0 to 660 lb/min)

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### Max. process pressure

PN 40, Class 300

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## Liquids

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**Medium temperature range**

–196 to +125 °C (–320 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**

AlSi10Mg, coated

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**Degree of protection**

IP66/67, type 4X enclosure

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**Display/Operation**

No local operation

Configuration via operating tools possible

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**Outputs**

None

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**Inputs**

None

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**Digital communication**

Modbus RS485

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**Power supply**

DC 20 to 30 V

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**Hazardous area approvals**

ATEX, IECEx, cCSAus, NEPSI, EAC

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**Other approvals and certificates**

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

CRN

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## Liquids

### **Metrological approvals and certificates**

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

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### **Material certificates**

3.1 material

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