

LNGmass Coriolis flowmeter

Refueling application flowmeter with easy system integration



More information and current pricing:

www.de.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

Product headline

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

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 $-196\text{ }^{\circ}\text{C}$ ($-321\text{ }^{\circ}\text{F}$).

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

Wetted materials

Measuring tubes: 1.4539 (904L)

Connection: 1.4404 (316/316L)

Measured variables

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

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)

Max. process pressure

PN 40, Class 300

Liquids

Medium temperature range

–196 to +125 °C (–320 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, EAC

Other approvals and certificates

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

CRN

Liquids

Metrological approvals and certificates

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

Material certificates

3.1 material

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