

LPGmass

Coriolis flowmeter

The refueling and distribution application flowmeter with easy system integration



More information and current pricing:

www.endress.com/8FE

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
- 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 (liquid): $\pm 0.2\%$ Volume flow (liquid): $\pm 0.3\%$
- **Measuring range** 0 to 45 000 kg/h (0 to 1650 lb/min)
- **Medium temperature range** -40 to $+125\text{ }^{\circ}\text{C}$ (-40 to $+257\text{ }^{\circ}\text{F}$)
- **Max. process pressure** PN 40, Class 300, 63K
- **Wetted materials** Measuring tube: 1.4539 (904L) Connection: 1.4404 (316/316L)

Field of application: The LPGmass is specially designed for flow measurement of LPG for dispensing and truck unloading. It combines an integrated temperature measurement with intelligent conversion functions, providing volume correction directly on site. LPGmass will be the preferred choice for system integrators, skid builders and equipment manufacturers.

Features and specifications

Liquids

Measuring principle

Coriolis

Product headline

The refueling and distribution application flowmeter with easy system integration. Accurate measurement of liquefied petroleum gas in refueling and distribution 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 45 000 kg/h (1654 lb/min). Volume flow calculation according to API table 53.

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.

Nominal diameter range

DN 8 to 40 ($\frac{3}{8}$ to 1½")

Wetted materials

Measuring tube: 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): ± 0.2 %

Volume flow (liquid): ± 0.3 %

Measuring range

0 to 45 000 kg/h (0 to 1650 lb/min)

Liquids

Max. process pressure

PN 40, Class 300, 63K

Medium temperature range

−40 to +125 °C (−40 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

Powder-coated die-cast aluminium

Degree of protection

IP67, type 4X enclosure

Display/Operation

No local operation

Configuration via operating tools possible

Outputs

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

Inputs

None

Digital communication

Modbus RS485

Power supply

DC 10 to 30 V

AC 20 to 28 V

Hazardous area approvals

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

Liquids

Other approvals and certificates

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

Metrological approvals and certificates

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

Pressure approvals and certificates

PED, CRN

Material certificates

3.1 material

More information www.endress.com/8FE