

# LPGmass Coriolis flowmeter

The refueling and distribution application flowmeter with easy system integration



More information and current pricing:

[www.at.endress.com/8FE](http://www.at.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

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### Product headline

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

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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 40 ( $\frac{3}{8}$  to 1½")

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### Wetted materials

Measuring tube: 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):  $\pm 0.2$  %

Volume flow (liquid):  $\pm 0.3$  %

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### Measuring range

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

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## Liquids

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**Max. process pressure**

PN 40, Class 300, 63K

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**Medium temperature range**

-40 to +125 °C (-40 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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## Liquids

### **Other approvals and certificates**

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

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### **Metrological approvals and certificates**

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

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### **Pressure approvals and certificates**

PED, CRN

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### **Material certificates**

3.1 material

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