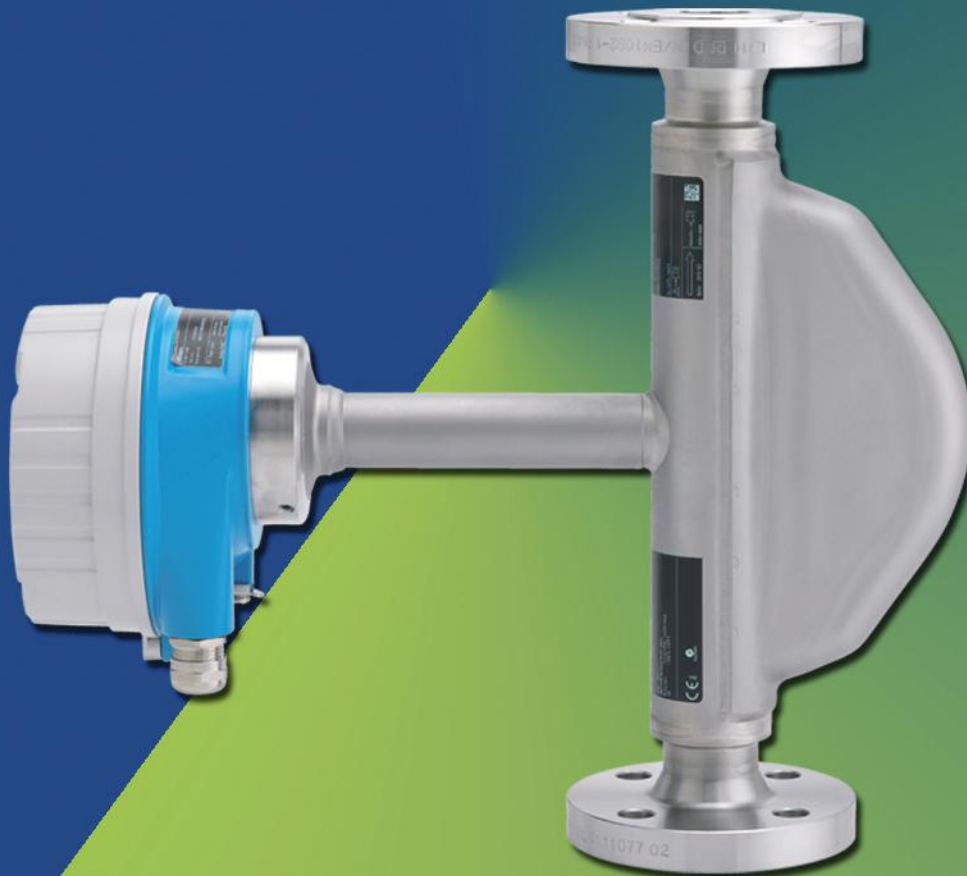




# LNG

## MEASUREMENT TECHNOLOGY



# LNGmass

## Coriolis flow measurement

The LNGmass measuring system fulfills the EMC requirements according to IEC/EN 61326 and NAMUR NE21. It also conforms to the requirements of the EU and ACMA directives and thus carries the **CE** and **✓** mark.

ONE TEAM - ONE WORLD - ALL GASES

- Proven Coriolis measuring technology:  
Convincing alternative to traditional volumetric measurement methods
- Direct mass measurement:  
Including conversions to other units of measure
- Space-saving compact design:  
Smallest flowmeter for LNG dispensers worldwide
- No inlet and outlet runs required
- Cost-effective operation: maintenance-free, no moving parts
- Robust:  
Precise measurement even at temperatures as low as  $-196\text{ °C}$  ( $-321\text{ °F}$ )
- Optimal refueling control:  
Simultaneous measurement of mass flow and temperature
- Traceable measurement results:  
Ensured by our own accredited calibration facilities according to ISO/IEC 17025

## TECHNICAL DATA

### Transmitter

Operation:	Via operating tool, e.g. "FieldCare" from Endress+Hauser
Power supply:	DC 20 to 30 V
Ambient temperature:	$-40$ to $+60\text{ °C}$ ( $-40$ to $+140\text{ °F}$ )
Degree of protection:	IP66 and IP67 (Type 4X enclosure)
Dimensions (L × W × H):	<b>DN 8 (3/8"):</b> 232 (9.1) × 136 (5.35) × 350 (13.8) mm (in) <b>DN 15 (1/2"):</b> 279 (11.0) × 136 (5.35) × 360 (14.2) mm (in) <b>DN 25 (1"):</b> 329 (13.0) × 136 (5.35) × 370 (14.6) mm (in)
Galvanic Isolation:	All circuits for outputs and power supply are galvanically isolated from each other
Outputs / Communication:	Modbus RS485
Ex approvals:	ATEX, IECEx, INMETRO, NEPSI, cCSAus
Ignition protection type:	Intrinsically safe (Ex ia); with Safety Barrier for Ex zones

### Sensor

Nominal diameters:	DN 8 (3/8"), DN 15 (1/2"), DN 25 (1")
Max. measured error:	$\pm 0.15\%$ o.r. under reference conditions (for mass and volume flow)
Measuring range:	0 to 18000 kg/h (0 to 660 lb/min)
Process connections Flanges:	EN (DIN), ASME
Process pressure:	Max. 40 bar (580 psi), Class 300
Process temperature:	$-196$ to $+125\text{ °C}$ ( $-321$ to $257\text{ °F}$ )
Materials:	Stainless steel (transmitter housing, measuring tubes and flanges)

Flüssiggas-Anlagen GmbH

Peiner Straße 217, D-38229 Salzgitter/Germany

T: +49 (0) 5341 8697-30, [www.fas-engineering.de](http://www.fas-engineering.de), [info@fas-engineering.de](mailto:info@fas-engineering.de)

