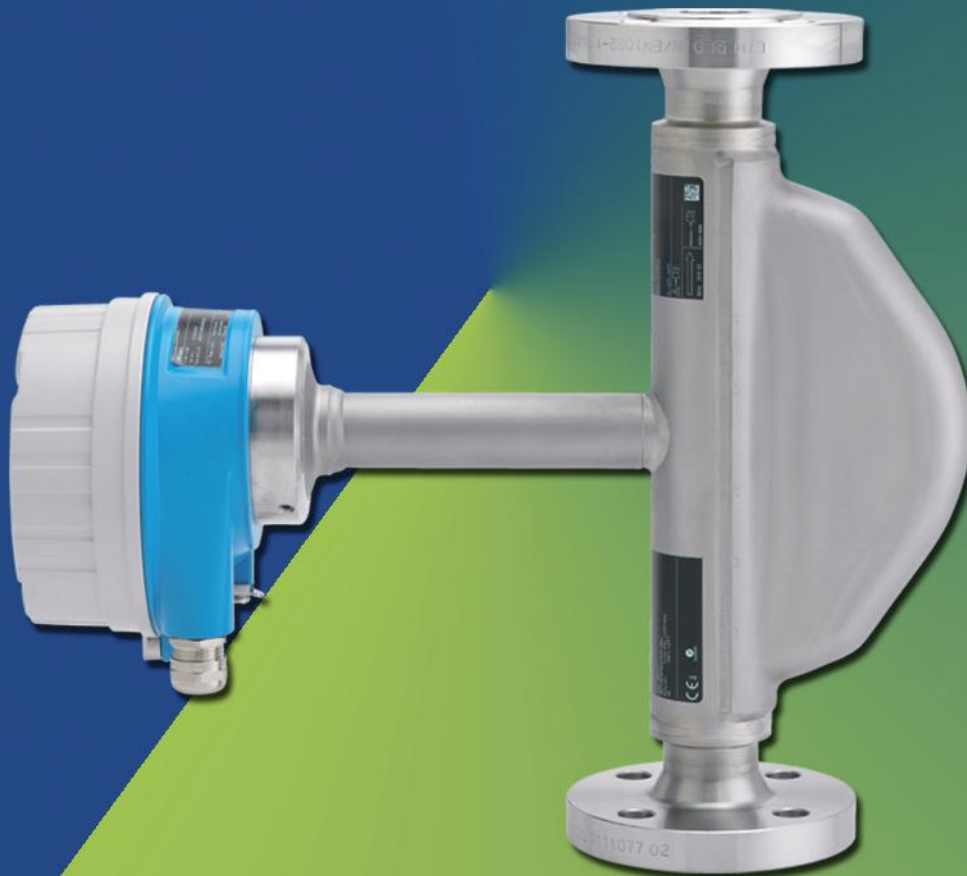




LNG

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 °C (-321 °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):	DN 8 (3/8"): 232 (9.1) × 136 (5.35) × 350 (13.8) mm (in) DN 15 (1/2"): 279 (11.0) × 136 (5.35) × 360 (14.2) mm (in) DN 25 (1"): 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 °F)
Materials:	Stainless steel (transmitter housing, measuring tubes and flanges)

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