

UNLOCKING IMPROVED LNG MEASUREMENT ACCURACY WITH CORIOLIS METERS

Micro Motion™ ELITE™ Coriolis Flow Meters

Reliable direct mass flow measurement for cryogenic LNG applications.

Micro Motion™ ELITE™ Coriolis Flow Meters deliver enhanced accuracy and reliable performance for cryogenic LNG applications. By measuring mass flow directly, without volume correction or moving parts, they simplify metering, reduce maintenance, and protect financial outcomes across custody transfer and process operations.

Why ELITE for LNG measurement

- **Industry-leading accuracy**
  - Standard: ±0.35% of mass flow
  - NEW Enhanced: ±0.20% of mass flow*
- **Direct mass flow measurement:** No volume correction required—eliminates complexity and reduces uncertainty
- **Lower maintenance requirements:** No moving parts reduce wear, downtime, and service intervention
- **Simplified installation and removal:** No insulation required enables easier installation, maintenance, and dismounting
- **Fast, non-disruptive verification:** Water transferability allows quick, periodic verification using water
- **Reduce metrology CapEx by >40%:** Lower installed cost compared to alternative flow technologies
- **Cryogenic performance:** Reliable operation in extreme LNG conditions, supporting accurate measurement across critical transfer points
- **Global Compliance:** NMi OIML R117 and MID certified to support global regulatory and custody transfer requirements

OIML

MID
Measuring Instrument Directive
2014/32/UE



Micro Motion ELITE Coriolis Flow Meters

SMART METER VERIFICATION

Smart Meter Verification delivers on-demand, traceable confirmation of meter health helping operations and quality teams verify performance without process downtime.

*For an engineered-to-order solution, please contact your Emerson Sales Representative for further information.

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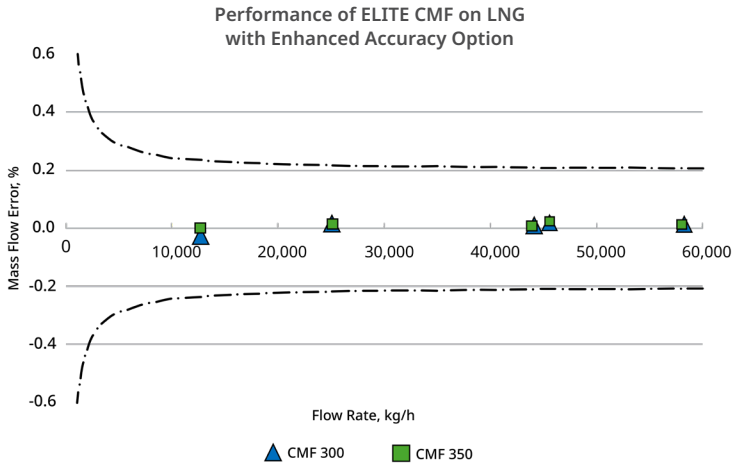
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Enhanced Accuracy Option

The enhanced accuracy option is available as an engineered-to-order solution for Micro Motion ELITE CMF100 (1"/DN25) through CMF350 (4"/DN100) Coriolis sensors when paired with the Micro Motion 5700 Transmitter and an external temperature input.

- Temperature range: -140 °C to -200 °C (-220 °F to -328 °F)
- ±0.20% mass flow accuracy under cryogenic conditions

Third Party Tested at VSL, National Metrology Institute





Micro Motion ELITE CMF sensor

Easy Setup



ELITE CMF + 5700 Transmitter

Input options:
HART 4-20 mA
RS-485 Modbus
Ethernet I/P
Modbus-TCP
PROFINET



External Temperature Input

For more information, visit
Emerson.com/MicroMotion

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