

# MICRO MOTION ELITE CORIOLIS MASS AND DENSITY FLOWMETERS



The Coriolis Flowmeter You've Trusted  
for Over 35 Years

# Unparalleled Measurement Confidence

The ELITE family of Coriolis flowmeters has unmatched functionality, line size breadth, accuracy, and turndown range. Designed for immunity to external effects, ELITE Coriolis meters deliver accurate measurements even in challenging fluid conditions or environments.



## Ultimate Performance

- Industry-leading liquid ( $\pm 0.05\%$ ) & gas ( $\pm 0.25\%$ ) mass flow accuracy
- Multi-variable capability for simultaneous high accuracy mass, density, volume, and temperature measurement
- Widest flow range capability with 100:1 turndown
- Most reliable flow measurement performance, particularly in challenging applications such as two-phase flow
- Designed for immunity to process, mounting and environmental effects

## Best Fit-for-Application

- The ELITE product family can fit your needs with the widest range of line sizes; ranging from 1/12-inch (DN1) to 12-inch (DN300)
- Multiple wetted materials and configurations enable the widest temperature ranges  $-400^{\circ}\text{F}$  to  $662^{\circ}\text{F}$  ( $-240^{\circ}\text{C}$  to  $350^{\circ}\text{C}$ ) and high pressures up to 6000 psig (414 barg)
- Flexible and fast communication protocols that can easily integrate with your process

## Superior Measurement Confidence

- Our Smart Meter Verification process delivers measurement integrity assurance real-time and in process
- World-class calibration and testing facilities deliver an accurate measurement straight out of the box
- Global application experts and technicians to work with you 24/7 through your most difficult process challenges
- Dedicated design and process engineers deliver unmatched Coriolis expertise

PRODUCT HIGHLIGHTS

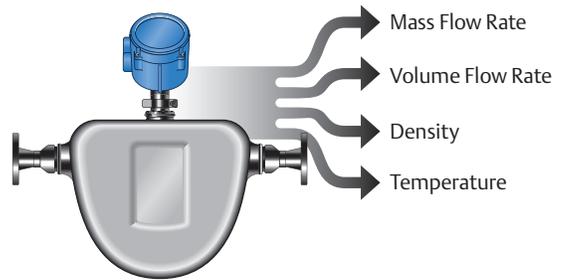
**Smart Meter Verification**

Delivers absolute confidence in measurement integrity and performance with our patented methodology for meter verification in-line and on demand.



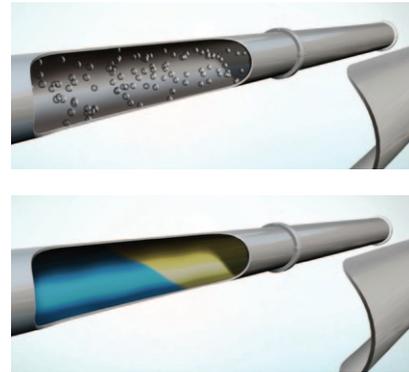
**Multi-Variable**

Provides precision measurement for a range of variables including mass flow, volume flow, flow totals, density, concentration and temperature giving you more insight into your process.



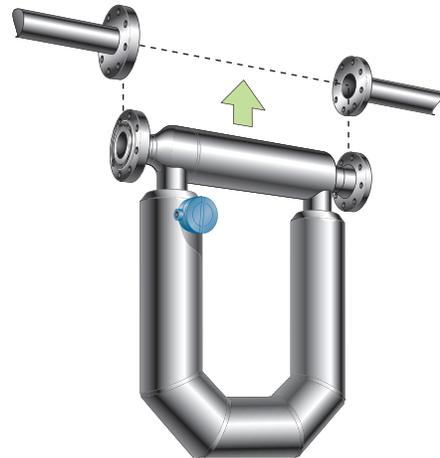
**Two-Phase Flow**

Ultimate two-phase flow performance delivers reliable measurement for any application, including entrained air, slurry, or emulsion.



**Fit-for-Purpose**

With the widest flow range of .01 lb/min (0.35 kg/hr) to 120,000 lb/min (3,266,000 kg/hr), the Micro Motion ELITE Coriolis flowmeters cover the widest breadth of applications for your flow measurement needs.





# MEETING YOUR INDUSTRY NEEDS

## Oil and Gas

- Assured liquid or gas measurement accuracy with both industry standards (e.g., API, AGA) and custody transfer approvals (e.g., MID, NTEP, Measurement Canada)
- No moving parts means no scheduled maintenance, no mechanical wear, no meter factor drift, and no debris damage or plugging
- Proprietary petroleum software, compliant with API 11.1 and API 11.2.4, delivers mass, gross volume, corrected net volume, and API gravity at both process and reference conditions

## Chemical

- Improve plant-wide mass balance with unparalleled mass flow rate accuracy
- Simplify greenhouse gas monitoring compliance with Smart Meter Verification
- Extend proof test intervals for SIS and simplify compliance for Green House Gas measurement with Smart Meter Verification

## Food and Beverage

- Most accurate in-line density and concentration measurement solution delivers reliable product quality
- Eliminate costly downtime and maintenance inherent with alternative flow technologies
- Reliable batching solutions eliminate volumetric variation caused by changes in ingredients, temperature, or density

## Power

- Provide accurate and reliable flow & density measurements to facilitate cost effective environmental compliance
- Superior accuracy and turndown reduce uncertainty in plant or unit performance testing
- SMART, multivariable instrumentation enables greater operational flexibility
- Certified fiscal custody transfer meters allow better resource accountability

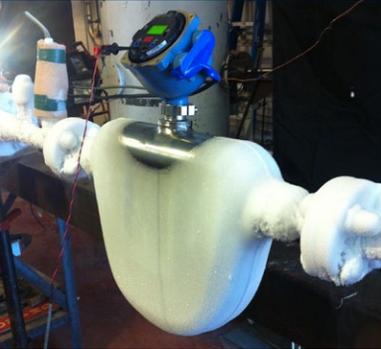
## Marine

- High accuracy over a wide range of flow rates to meet your fuel transfer needs
- Measurement robustness during loading and unloading, even in the presence of entrained gas
- Compatible with all marine fuel types: HFO, MGO, MDO and LNG
- OIML/MID compliance allows for traceability and confidence in your fuel bunkering measurement

## Life Sciences

- Accuracy in real-world conditions delivers measurement confidence for critical process control
- Reliable “empty-full-empty” performance for repeatable batch operations
- On-site metrology solutions and Smart Meter Verification provide simplified calibration and validation

**YOUR SOLUTION** FOR THE  
MOST DEMANDING PROCESS  
APPLICATIONS



## MICRO MOTION

For over 35 years, Emerson's Micro Motion has been a technology leader delivering the most precise flow, density and concentration measurement devices for fiscal applications, process control and process monitoring. Our passion for solving flow and density measurement challenges is proven through unbeatable accuracy and performance of our devices.

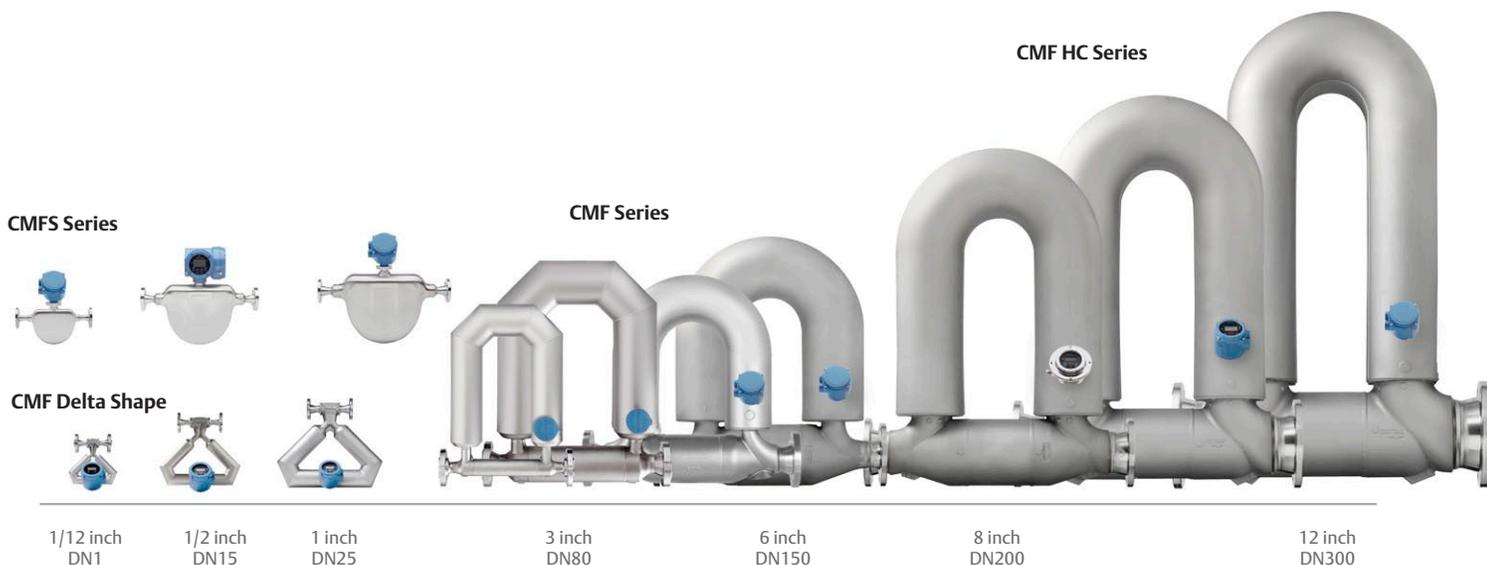


**Emerson's Flow Lifecycle Services** can help you get the most out of your flow meter and process

- Workforce training by industry leading experts
- Certified Field Service personnel provide in-person startup, configuration, and diagnostic support
- 24x7 technical support team
- Local service centers deliver quick response and nearby support



## ELITE Product Family



For more information, please visit: [www.MicroMotion.com/ELITE](http://www.MicroMotion.com/ELITE)

©2015 Micro Motion, Inc. All rights reserved. The Emerson logo is a trademark and service mark of Emerson Electric Co. Micro Motion, ELITE, ProLink, MVD and MVD Direct Connect marks are marks of one of the Emerson Process Management family of companies. All other marks are property of their respective owners.

### Emerson Process Management Americas

7070 Winchester Circle  
Boulder, Colorado USA 80301  
[www.MicroMotion.com](http://www.MicroMotion.com)  
[www.Rosemount.com](http://www.Rosemount.com)  
T: +1 800 522 6277  
T: +1 (303) 527 5200  
F: +1 (303) 530 8459

Mexico T: 52 55 5809 5300  
Argentina T: 54 11 4837 7000  
Brazil T: 55 15 3413 8000  
Venezuela T: 58 26 1300 8100  
Chile T: 56 2 2928 4800

### Emerson Process Management Europe/Middle East

Central & Eastern Europe T: +41 41 7686 111  
Dubai T: +971 4 811 8100  
Abu Dhabi T: +971 2 697 2000  
France T: 0800 917 901  
Germany T: 0800 182 5347  
Italy T: 8008 77334  
The Netherlands T: +31(0) 70 413 6666  
Belgium T: +32 2 716 77 11  
Spain T: +34 913 586 000  
U.K. T: 0870 240 1978  
Russia/CIS T: +7 495 981 9811

### Emerson Process Management Asia Pacific

Australia T: (61) 3 9721 0200  
China T: (86) 21 2892 9000  
India T: (91) 22 6662 0566  
Japan T: (81) 3 5769 6803  
South Korea T: (82) 2 3438 4600  
Singapore T: (65) 6 777 8211

