REVOLUTIONIZE YOUR GAS SPECIFIC GRAVITY, PURITY AND ENERGY MEASUREMENT TECHNOLOGY



Micro Motion Specific Gravity Meter



INTRODUCING EMERSON'S MICRO MOTION® SPECIFIC GRAVITY METER

Specific Gravity and Purity Measurement with Performance and Confidence

The combination of our industry-leading technology, wide breadth of products, unparalleled application expertise and customer support allows us to deliver unbeatable performance and value, time and time again.







Our Specific Gravity Meter (SGM) delivers precision, fast-response measurements of specific gravity, molecular weight, gas purity, BTU/calorific value and Wobbe Index. This rugged and reliable meter raises the standard in online Specific Gravity measurement and enhances the custody transfer, gas purity and combustion control capabilities of diverse applications such as fuel gas, syngas, hydrogen and natural gas mixtures.

The Micro Motion Specific Gravity Meter Delivers:

Superior Measurement Capabilities

- An innovative sensor that provides the best real-time measurement of specific gravity, molecular weight and relative density
- The tightest resolution and repeatability available (±0.02% reading)
- A rugged, fast-response device that needs minimal maintenance and recalibration

A World-Class Leading Electronics Platform

- Local display and user interface allows for simplified device management, minimizing maintenance requirements
- Simple integration into DCS, PLC, and flow computers (Frequency/Time Period, Analog 4-20mA, HART®, Modbus RS485 and WirelessHART™)
- Revolutionary device diagnostics and verification methods

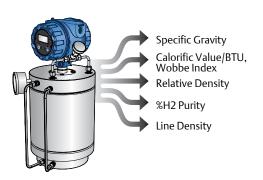
Robust & Flexible Measurement

- Real-world performance that is unaffected by process or compositional changes
- Application-specific measurement and output configurations to ensure simple set-up and commissioning

PRODUCT HIGHLIGHTS

Application-Specific Configurations

Automatic, application-specific measurement and output configurations ensure simple set-up and commissioning



Meter Diagnostics

Built-in diagnostics for real-time monitoring and automated meter verification systems



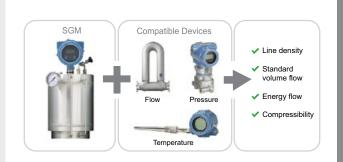
Unrivalled Density Performance

A choice of installation options for replacement solutions give you the performance you need



Interconnectivity

Integral HART I/O allows direct input of external temperature, pressure and flow measurements for enhanced outputs





KEY APPLICATIONS

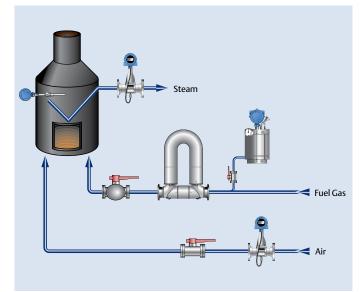
Oil & Gas Pipeline & Terminals

- Natural Gas Fiscal and Custody Transfer
 Minimize exposure and gain/loss uncertainty
- Gas Blending and Allocation
 Optimize control with fast-response measurement



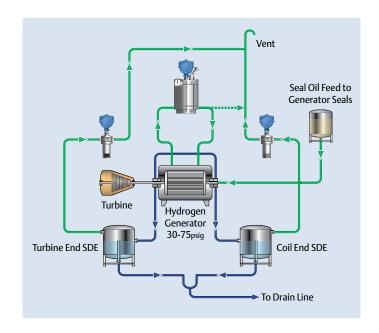
Refining & Petrochemical Fuel Gas Measurement

- Optimized Combustion Control
 Efficient stable steam production and reduced flame-out risks
- Minimize Emissions and Maintenance
 Fast-response combustion management reduces
 CO₂ and NO_X taxation and fuel costs



Hydrogen Purity Control

- Turbine Generator Cooling
 Efficient hydrogen-cooling and minimized
 windage loss through fast-response purity
 measurement
- Enhance Refining Efficiencies
 Hydrogen purity control for improved cracking yields and catalyst protection





Specific Gravity Meter Specifications

Measuring Range 0.1-3.0 typical

±0.1% of reading (Specific Gravity, Accuracy

Molecular Weight, Relative Density)

Repeatability ±0.02% of reading

Temperature Accuracy BS1904, DIN 43760 Class 'A' (±0.15 ± 0.002 X T)°C

Less than 5 seconds upon entry into device Response Time

Safety Approvals ATEX, CSA, IECEx (Intrinsically-safe)

Display Two-line, LCD screen,

Optical switch configuration

Outputs Standard: Time Period, 4-20mA, HART,

Modbus RS-485

Optional: WirelessHART[™]

Protection Class Ingress Protection: IP66/67, NEMA4

EMC compliant with EN61326

Dimensions (no enclosure) 452 mm (h) x 201 mm (w) x 254 mm (d)

Weight 20 kg (44 lbs)







Compact Density Meter Peak Performance **Precision Density Meter**



Fork Density Meter **Direct Insertion Density Meter**



Gas Density Meter Fiscal Gas **Density Meter**



Specific Gravity Meter Gas Specific Gravity /BTU Meter

T: +7 495 981 9811



Fork Viscosity Meter Multi-Variable Viscosity Meter



Heavy Fuel Viscosity Meter Multi-Variable Marine & Power **HFO Viscosity Meter**

For more information, please visit: www.MicroMotion.com/density

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