

Mass flow and density measurement in one device

Emerson Micro Motion Coriolis Flow Meter

With over 1.5 million Micro Motion Coriolis devices installed, Emerson is a global technology and market leader in mass flow and density measurement. Anderson-Negele is now adding their hygienic models for the food and beverage industry to its portfolio as part of a distribution agreement.

These innovative measuring instruments are suitable for almost all production processes in the food and beverage industry and are particularly advantageous in applications where the density (or concentration, Brix, Plato, Proof or Baumé value) must be determined at the same time as the flow rate.

- One device for different applications: Mass and volume flow measurement, density measurement, measurement of liquids and slurries or even gases
- Superior measuring accuracy of up to $\pm 0,05\%$ (liquid mass control) and up to $\pm 0,0005 \text{ g/cm}^3$ (density control)
- Smart Meter Verification™ provides advanced diagnostic of the meter functionality
- The G-series is the cost-effective and ultra-compact all-rounder for the most current applications
- The H-series offers improved specifications for the most demanding requirements in terms of measuring accuracy, turndown, pressure, and temperature stability
- Hygienic design with all stainless steel 316L, surface quality 0.8 or $0.4 \mu\text{m}$
- The H series is already 3A/EHEDG certified, certification for the G series is expected shortly
- Large selection of transmitters for all communication and functional requirements




Technical Data Micro Motion at a glance

	H-Series	G-Series
Accuracy	Mass $\pm 0,05\%$, Density $\pm 0.5 \text{ kg/m}^3$	Mass $\pm 0,1\%$, Density $\pm 5.0 \text{ kg/m}^3$
Insertion length	404 mm (H025) to 881 mm (H300)	206 mm (G025) to 584 mm (G300)
Process Temp.	$-148 \dots 400^\circ\text{F}$ ($-100 \dots 204^\circ\text{C}$)	$-76 \dots 302^\circ\text{F}$ ($-60 \dots 150^\circ\text{C}$)
Communication	4...20 mA HART Ethernet/IP 10 kHz Impuls Modbus TCP Profinet Profibus Foundation Fieldbus Discrete I/O	



Mass Flow and Density Measurement in one device: Micro Motion

To fill out the form online just [click here](#)

 Micro Motion Request For Quote Data Worksheet	Date			Project Name		
	Contact			Qty THIS spec		
	Company					
	Phone					

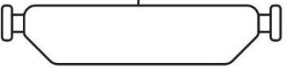
Fluid Name			Fluid State	<input type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Slurry	Allowable Pressure Drop At Max Flow (REQUIRED)		Density Accuracy (If measuring density)	
Required Accuracy At Max Flow (% of Rate)(REQUIRED)	<input type="checkbox"/> Standard <input type="checkbox"/> Enhanced	Certification (REQUIRED)	<input type="checkbox"/> Requires 3-A <input type="checkbox"/> Requires EHEDG <input type="checkbox"/> Legal for Custody Transfer	Enclosures	<input type="checkbox"/> Painted Aluminum <input type="checkbox"/> Stainless Steel			

	Minimum (Optional)	Operating (REQUIRED)	Maximum (Optional)	Units (REQUIRED)
Flow Rate				<input type="checkbox"/> USGPM <input type="checkbox"/> USGPH <input type="checkbox"/> L/min <input type="checkbox"/> L/hr <input type="checkbox"/> lb/min <input type="checkbox"/> lb/hr <input type="checkbox"/> kg/min <input type="checkbox"/> kg/hr <input type="checkbox"/> _____
Upstream Pressure				<input type="checkbox"/> psia <input type="checkbox"/> psig <input type="checkbox"/> barg
Fluid Temperature				<input type="checkbox"/> Degrees F <input type="checkbox"/> Degrees C
Ambient Temperature				<input type="checkbox"/> Degrees F <input type="checkbox"/> Degrees C
<input type="checkbox"/> Density <input type="checkbox"/> Specific Gravity				<input type="checkbox"/> lb/gal <input type="checkbox"/> kg/L <input type="checkbox"/> lb/ft3 <input type="checkbox"/> kg/cm3 <input type="checkbox"/> g/cm3 <input type="checkbox"/> _____
Viscosity				<input type="checkbox"/> cP <input type="checkbox"/> centistokes <input type="checkbox"/> _____

CHOOSE ONE STYLE ONLY

Direct Digital Output (NO Transmitter)

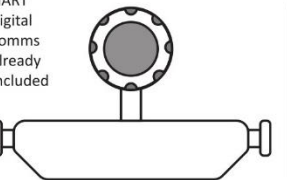
☐ MVD SOLO (Direct RS-485 Output)
☐ DIN Rail External Ethernet Module Supplied



Fitting
☐ Tri-Clamp Preferred Clamp Size _____ inches
☐ Other Fitting Type _____

Direct Mount Transmitter

☐ Ethernet Required
HART digital comms already included

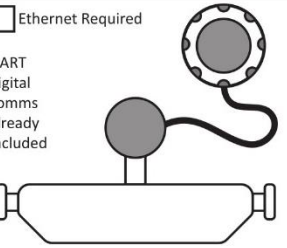


Fitting
☐ Tri-Clamp Preferred Clamp Size _____ inches
☐ Other Fitting Type _____

Display
☐ No Display
☐ Glass Lens - Standard Certification
☐ Glass Lens - Class 1/Explosion Proof
☐ Plastic Lens - Standard Certification

Remote Mount Transmitter

☐ Ethernet Required
HART digital comms already included



Fitting
☐ Tri-Clamp Preferred Clamp Size _____ inches
☐ Other Fitting Type _____

Display
☐ No Display
☐ Glass Lens - Standard Certification
☐ Glass Lens - Class 1/Explosion Proof
☐ Plastic Lens - Standard Certification

Remote Cable
☐ PVC Coated (Standard)
☐ Teflon Coated
10' standard length
☐ Custom Length _____ feet

Transmitter Output Scaling
(If Analog/Frequency output channels required)

NOT Required if ETHERNET ONLY OUTPUT

NOTE
If no scaling specified, meter configured for maximum flowrate

Volume Units
☐ gallons
☐ liters

MASS Units
☐ pounds
☐ kilograms

Time Base
☐ seconds
☐ minutes
☐ hours

Analog Output 1
(If applicable)
☐ Density
☐ MASS Flow Rate
☐ Volume Flow Rate
LRV (4mA) _____
URV (20mA) _____

Analog Output 2
(If applicable)
☐ Density
☐ MASS Flow Rate
☐ Volume Flow Rate
LRV (4mA) _____
URV (20mA) _____

Frequency
(If applicable)
☐ MASS Flow Rate
☐ Volume Flow Rate
☐ Pulses / Unit
_____/_____
☐ Units / Pulse
_____/_____

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Tech. Support