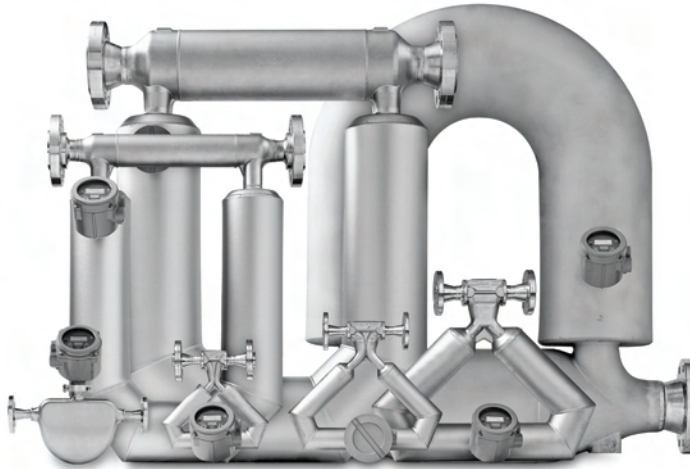


Product Data Sheet

PS-00374, Rev. S
September 2011

Micro Motion® ELITE® Coriolis Flow and Density Meters

Micro Motion® ELITE® Coriolis meters are the leading precision flow and density measurement solutions. ELITE meters offer the most accurate and repeatable measurement available for liquids, gases, or slurries.



Best precision flow and density measurement

- Unique design delivers unparalleled measurement sensitivity and stability
- Guarantees consistent, reliable performance over the widest flow range
- Smart Meter Verification for quick, complete meter diagnosis without process interruption.
- 2-wire loop-powered option for installation simplification

Superior performance in the most challenging applications

- Industry standard for custody transfer and critical process control
- Best two-phase flow capability for batching, loading, and entrained air applications
- Immune to fluid, process, or environmental effects for superb measurement confidence

ELITE® **Peak performance
Coriolis meter**

ELITE HC **Peak performance
high capacity
meter**

F-Series **High performance
compact drainable
Coriolis meter**

H-Series **Hygienic compact
drainable Coriolis
meter**

T-Series **Straight tube
full-bore
Coriolis meter**

R-Series **General purpose
flow-only
Coriolis meter**

LF-Series **Extreme low-
flow Coriolis
meter**



Materials of construction

Wetted parts ⁽¹⁾⁽²⁾⁽³⁾	304L or 316L stainless steel; or Hastelloy C-22
Housing	304L stainless steel ⁽⁴⁾
Junction box	300-series stainless steel ⁽⁴⁾ or polyurethane-painted aluminum; NEMA 4X (IP66)
Core processor	300-series stainless steel ⁽⁴⁾ or polyurethane-painted aluminum; NEMA 4X (IP66)
Model 2400S transmitter	Polyurethane-painted aluminum or 316L stainless steel; NEMA 4X (IP66)
Model 2200S transmitter	Polyurethane-painted aluminum or 316L stainless steel; NEMA 4X (IP66/67)

- (1) General corrosion guides do not account for cyclical stress, and therefore should not be relied upon when choosing a wetted material for your Micro Motion sensor. Please refer to the Micro Motion corrosion guide for proper material compatibility information.
- (2) The outer flange ring on lap-joint type flanges is non-wetted and is 304L stainless steel. Consult factory for other materials.
- (3) Models CMF010P, CMFS010P, CMFS015P, and CMF400P have nickel alloy tubes and stainless steel fittings. Material compatibility is never better than 316L stainless steel. Refer to the Micro Motion Corrosion Guide for the Micro Motion policy on fixed bi-metallic sensor capability.
- (4) 316L stainless steel is available.

Weight

Weights provided are the weight of the flowmeter with 150 lb weld neck raised face flanges.

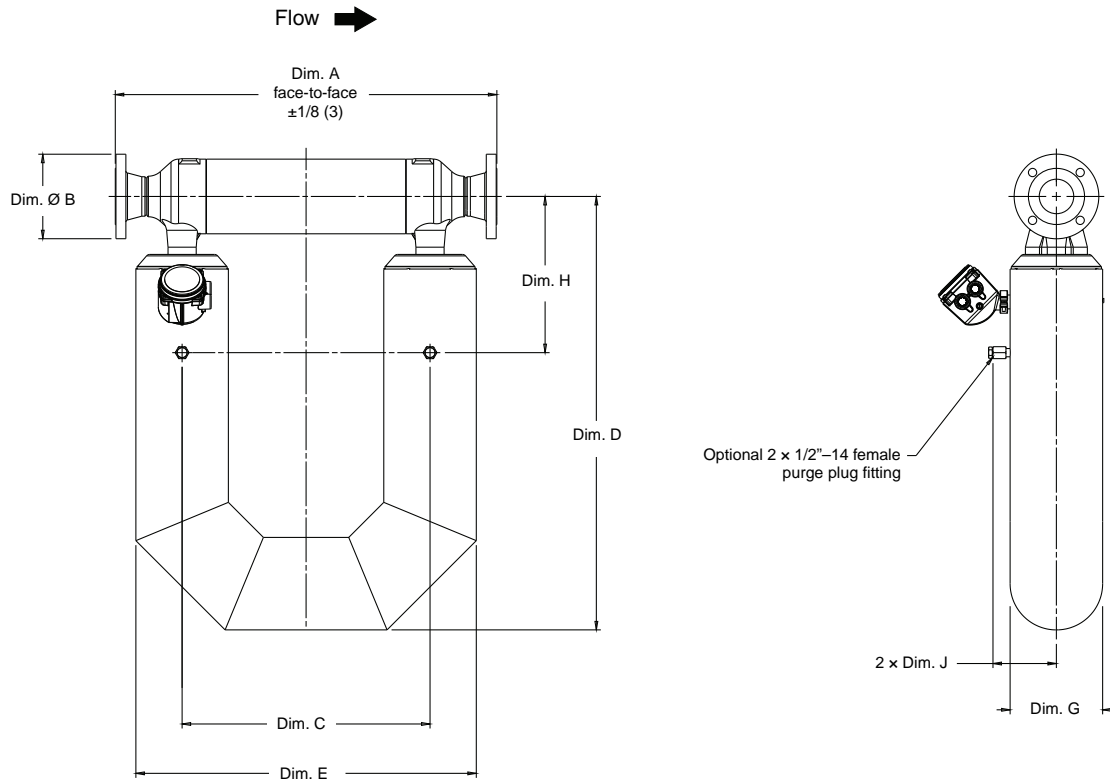
	With junction box		With core processor, Model 2400S, or Model 2200S transmitter ⁽¹⁾		With FMT transmitter	
	lb	kg	lb	kg	lb	kg
CMFS010	—	—	9	4	12	5
CMFS015	—	—	9	4	12	5
CMF010	14	7	19	9	—	—
CMF025	8	4	13	6	—	—
CMF050	12	6	17	8	—	—
CMF100	29	13	34	16	—	—
CMF200	63	29	68	31	—	—
CMF300	165	75	170	77	—	—
CMF400	441	200	446	202	—	—

- (1) Weight stated for sensor with aluminum core processor. Add 4 lb (2 kg) for stainless steel core processor or stainless steel Model 2400S transmitter.

Dimensions *continued*

Models CMF200 and CMF300

Dimensions in *inches*
(*mm*)



Model	No. of flow tubes	Dimensions ⁽¹⁾⁽²⁾ in inches (mm)						
		Flow tube ID	C	D	E	G	H	J
CMF200	2	1.1 (27)	14 (356)	28 5/8 (727)	19 9/16 (497)	5 9/16 (142)	11 7/8 (302)	4 5/16 (110)
CMF300	2	1.8 (45)	22 (559)	38 7/16 (977)	30 3/16 (767)	8 3/16 (209)	13 7/8 (352)	5 5/8 (143)

(1) For dimensions A and B, see fittings tables on pages 49–52.

(2) Dimensions for each electronics option are shown on page 36.