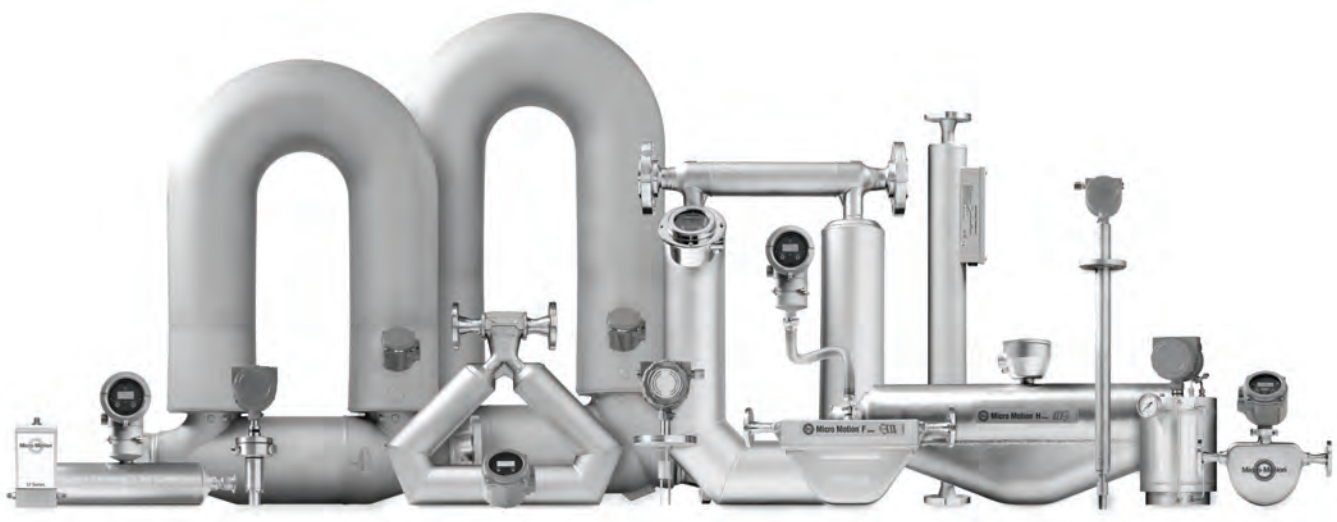
Product Data Sheet
PS-00232, Rev. K
April 2011

Micro Motion®
Technical Overview and Specification Summary

Emerson's world-leading Micro Motion® Coriolis flow and density measurement devices have set the standard for superior measurement technology. Micro Motion truly offers the best measurement solutions for any process challenge.



Technology leadership
Micro Motion is committed to technology innovations that deliver the highest-performing solutions for your complex measurement challenges.

Widest breadth of products
Micro Motion has the widest range of flow and density measurement devices for virtually any process, application, or fluid. A wide variety of wetted materials, line sizes, and an extensive range of output options enable optimal system integration.

Unparalleled value
Benefit from expert field and technical application service and support made possible from more than 600,000 meters installed worldwide and over 30 years of flow and density measurement experience.

Micro Motion®

EMERSON™
Process Management

Micro Motion Coriolis flow and density meters

	ELITE®	F-Series	H-Series	T-Series	R-Series	LF-Series	7835 7845 7847	7826 7827 7828 7829	7812 3098
Application type									
Continuous control	●	●	●	●	●	●	●	●	●
Batching / loading / blending	●	●	●	●	●	●	●	●	●
Custody transfer	●	◐	◐				●	◐	●
Measurement accuracy									
Liquid & slurry – Flow	±0.05%	±0.10%	±0.10%	±0.15%	±0.50%	±0.50%			
Liquid & slurry – Density	±0.0002 g/cm³ (±0.2 kg/m³)	±0.001 g/cm³ (±1.0 kg/m³)	±0.001 g/cm³ (±1.0 kg/m³)	±0.002 g/cm³ (±2.0 kg/m³)		±0.005 g/cm³ (±5.0 kg/m³)	±0.0001 g/cm³ (±0.1 kg/m³)	±0.001 g/cm³ (±1.0 kg/m³)	
Liquid – Viscosity								±1% FS	
Gas – Flow	±0.35%	±0.50%	±0.50%	±0.50%	±0.75%	±0.50%			
Gas – Density									±0.10%
Capabilities									
Self-draining	◐	●	●	●	●		●	●	
Sanitary / hygienic	◐		●	●			◐		
Entrained gas	●	◐	◐				◐		
Meter verification	●	●	●						
Secondary containment	●	●	●	●			●		
High temperature*	◐	◐							
High pressure**	◐	◐						●	
Cryogenic*	●						◐		
Wetted materials									
300-series stainless steel	●	●	●		●	●	●	●	●
Super Duplex	◐								
Alloy C-22	●	●						●	
Alloy B-3								●	
Ni-Span-C®							●		●
Titanium				●				●	
Monel®								●	
Zirconium								●	
Fits nominal line sizes									
Inches	1/10–12	1/4–4	1/4–4	1/4–2	1/4–3	1/32–1/4	1	1 or larger	1/4 or larger
Millimeters	3–300	6–100	6–100	6–50	6–75	0.8–6	23	25 or larger	6 or larger

* Standard temperature is –148 to +400 °F (–100 to +204 °C)
High temperature is above +400 °F (+204 °C)
Cryogenic is below –148 °F (–100 °C)

** Above 1494 psi (103 bar)

● Supported on all models

◐ Supported on some models

Product comparison Pages 2–3

Product details Pages 4–5

Performance Pages 6–8

Line size and flow rate Page 9

Gas flow specifications Pages 10–11

Temperature ratings Page 12

Pressure ratings Page 13

Micro Motion transmitters and controllers

	1500	1700	2200S	2400S	2500	2700	FMT	3300	3350	3500	3700	7950 7951
Output variables												
Mass / volume flow	●	●	●	●	●	●	●	●	●	●	●	
Net product content / flow‡				●	●	●				●	●	
Temperature			●	●	●	●	●			●	●	●
Density			●	●	●	●	●			●	●	●
Concentration				●	●	●				●	●	●
Viscosity / referred viscosity												●
Local display												
2-line		●	●	●		●						
Multi-line								●	●	●	●	●
Power												
AC		●		●		●		●	●	●	●	●
DC	●	●		●	●	●	●	●	●	●	●	●
Loop powered			●									
Outputs												
4–20 mA	●	●	●	●	●	●	●			●	●	●
10 kHz pulse	●	●		●	●	●	●			●	●	
Discrete	●	●		●	●	●	●	●	●	●	●	●
HART® / WirelessHART®	●	●	●	●	●	●		●	●	●	●	
Modbus®	●	●			●	●	●	●	●	●	●	●
FOUNDATION™ fieldbus						●						
PROFIBUS-PA						●						
PROFIBUS-DP				●			●					
DeviceNet™				●								
Inputs												
10 kHz pulse								●	●			
Discrete				●	●	●	●	●	●	●	●	
4–20 mA												●
HART										●	●	
2-wire density sensor												●
3-wire density sensor												●
4-wire Coriolis sensor	●	●			●	●				●	●	
9-wire Coriolis sensor	●	●			●	●				●	●	
Mounting												
Integral – Field		●	●	●		●	●					
Remote – Field		●				●			●		●	●
Remote – Control room	●				●			●		●		●
Remote – Rack/panel mount								●		●		
Special application types												
Batch controller								●	●	●	●	
Custody transfer						●		●	●	●	●	
Two-phase flow / entrained gas	●	●		●	●	●				●	●	
Filling & dosing	●						●					
Meter verification	●	●		●	●	●				●	●	
SIS Certified		●				●						
Hazardous approvals												
C1D1		●	●			●						
C1D2		●	●	●		●	●		●		●	
Zone 1		●	●			●			●		●	
Zone 2		●	●	●		●	●		●		●	

‡ Flow rate of product based on concentration. For example, in a dissolved sugar solution, the measurement is the flow rate of the sugar alone.

Micro Motion Coriolis flow and density meters

ELITE
Peak performance Coriolis meter

- Best precision flow and density measurement
- Superior performance in the most challenging applications

7835
Peak performance density meter

- Best precision density measurement
- Industry standard for fiscal hydrocarbon measurement
- Superior reliability

F-Series
High performance compact drainable Coriolis meter

- Best flow and density measurement in a compact, drainable flow meter
- Broadest range of application coverage
- Superior reliability and safety

7845 / 7847
High performance density meter

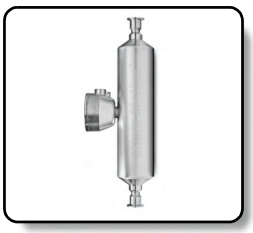
- Superior precision density measurement
- Broadest range of density measurement
- Superior reliability

H-Series
Hygienic compact drainable Coriolis meter

- Best flow and density measurement in a compact hygienic flow meter
- Comprehensive hygienic application coverage
- Superior reliability

7812
Fiscal gas density meter

- Best precision gas density measurement
- Industry standard for fiscal hydrocarbon measurement
- Superior reliability and safety



T-Series
Straight tube full-bore Coriolis meter

- Superior flow measurement in a single straight tube flow meter
- Comprehensive hygienic application coverage
- Superior reliability

7826 / 7828
Direct insertion density meter

- High accuracy density measurement
- Greatest installation flexibility
- Superior reliability and safety

R-Series
General purpose flow-only Coriolis meter

- Simple to install and easy to use Coriolis flow measurement
- Broadest range of application coverage
- Superior reliability

7827 / 7829
Direct insertion viscosity meter

- Multivariable measurement of viscosity, density, and temperature
- Unique direct insertion design
- Superior reliability and safety

LF-Series
Extreme low-flow Coriolis meter

- Highest precision miniaturized flow meter
- Scalable platform for the most demanding low-flow applications
- Superior reliability

3098
Gas specific gravity meter

- Direct measurement of gas specific gravity
- Continuous online measurement
- Fast speed of response

Micro Motion transmitters and controllers

Micro Motion transmitters and controllers from Emerson Process Management utilize MVD™ technology to deliver accurate, high-speed multivariable signals. Micro Motion transmitters are available with a wide selection of communication protocols, including HART®, Foundation™ fieldbus, PROFIBUS, DeviceNet™, Modbus®, and more. Micro Motion transmitters also carry advanced diagnostic tools, allowing you to rest easy knowing your process is being monitored correctly.

Only MVD technology allows you to:

- Dramatically reduce signal noise and obtain faster response times compared to analog devices
- Measure multiple variables for accurate process control
- Identify and resolve problems easily with built-in smart diagnostics
- Check performance with true in-situ meter verification

1500/2500
Compact control-room transmitter

- DIN rail mount with flexible installation options
- Wide variety of I/O and application capabilities to fit your needs

2200S
2-wire transmitter

- Loop powered for simple installation
- Compact design integrally mounted to sensor

1700/2700
Versatile field-mount transmitter

- Integral and remote mount options
- Wide variety of I/O and application capabilities to fit your needs

2400S
Compact integral transmitter

- Simple I/O options

FMT
Compact filling and dosing transmitter

- Easy-to-clean, hygienic design that enables SIP/CIP
- Highest accuracy and fast response time

The Series 3000 product line offers basic PLC-type functionality such as easy one-stage and two-stage batch control with ticket printing output. In addition, the Model 3500 and Model 3700 offer MVD transmitter functionality, combining transmitter and controller in a single package.

The Series 3000 also offers:

- A single operator interface for easy startup, control, and operation
- Full configuration capabilities that eliminate the need for external tools
- Effective security capabilities suitable for custody transfer applications

3300
Rack/panel mount discrete controller

3500
Rack/panel mount transmitter with discrete controller

3350
Field mount discrete controller

3700
Field mount transmitter with discrete controller

Accuracy – Liquids and slurries

	Flow accuracy[1]		Temperature	Density, values in g/cm^3 (kg/m^3)[1]
	Mass	Volume		
ELITE	±0.05%[2]	±0.05%[2]	±1 °C	±0.0002 (±0.2)[2]
F-Series	±0.10%	±0.15%	±1 °C	±0.001 (±1.0)
H-Series	±0.10%	±0.15%	±1 °C	±0.001 (±1.0)
T-Series	±0.15%	±0.25%	±1 °C	±0.002 (±2.0)
R-Series	±0.50%	±0.50%	±1 °C	—
LF-Series	±0.50%	±0.50%	±1 °C	±0.005 (±5.0)
7835	—	—	Class A RTD	±0.0001 (±0.1)
7845/7847	—	—	Class A RTD	±0.0001 (±0.1)
7826/7828	—	—	Class B RTD	±0.001 (±1.0)

(1) Flow rate accuracies are base percentages. For total accuracy see the box on page 7. Stated accuracy includes the combined effects of repeatability, linearity, and hysteresis. Specifications for ELITE ±0.0002 g/cm^3 (±0.2 kg/m^3) density accuracy are based on reference conditions of water at 68 to 140 °F (20 to 60 °C) and 15 to 30 psig (1 to 2 bar). All other specifications are based on reference conditions of water at 68 to 77 °F (20 to 25 °C) and 15 to 30 psig (1 to 2 bar).

(2) The accuracy for some ELITE sensor models may differ. Consult the ELITE Product Data Sheet for details.

Repeatability – Liquids and slurries

	Flow	Density	
		g/cm^3	kg/m^3
ELITE	±0.025%	±0.0001	±0.1
F-Series	±0.05%	±0.0005	±0.5
H-Series	±0.05%	±0.0005	±0.5
T-Series	±0.05%	±0.0005	±0.5
R-Series	±0.25%	—	—
LF-Series	±0.05%	±0.002	±2.0
7835	—	±0.00002	±0.02
7845/7847	—	±0.00005	±0.05
7826/7828	—	±0.0001	±0.1

Performance – Gases

	Mass flow accuracy[1]	Temperature	Density
ELITE	±0.35%	±1 °C	—
F-Series	±0.50%	±1 °C	—
H-Series	±0.50%	±1 °C	—
T-Series	±0.50%	±1 °C	—
R-Series	±0.75%	±1 °C	—
LF-Series	±0.50%	±1 °C	—
7812	—	Class A RTD	±0.10%
3098	—	—	±0.10%

(1) Flow accuracies are base percentages. For total accuracy, see the box on this page. Stated accuracy includes the combined effects of repeatability, linearity, and hysteresis.

Total accuracy with transmitter with MVD technology

$$\text{If flow rate} \geq \frac{\text{zero stability}}{(\text{base accuracy \%}) \div 100} \text{ then total accuracy} = \pm \text{ base accuracy \% of rate}$$

$$\text{If flow rate} < \frac{\text{zero stability}}{(\text{base accuracy \%}) \div 100} \text{ then total accuracy} = \pm\left[\left(\frac{\text{zero stability}}{\text{flow rate}}\right) \times 100\right]\% \text{ of rate}$$

NOTE: For zero stabilities, see page 8.

Product Selector/Configurator

Micro Motion offers an on-line program for finding the best products to fit your application. The Product Selector/Configurator allows you to specify the parameters that matter to you, such as accuracy, flow capacity, pressure drop, or turndown. To use the Product Selector/Configurator, visit our web site at www.micromotion.com.

Zero stabilities

Family	Model	lb/min	gal/min[(1)]	kg/h	l/h[(1)]
ELITE	CMFS010M	0.000075	0.00009	0.002	0.002
	CMFS010H, P	0.00015	0.000018	0.004	0.004
	CMFS015M	0.00037	0.000044	0.01	0.01
	CMFS015H, P	0.00073	0.000088	0.02	0.02
	CMF010M, H	0.000075	0.000009	0.002	0.002
	CMF010P	0.00015	0.000018	0.004	0.004
	CMF025	0.001	0.00012	0.027	0.027
	CMF050	0.006	0.00072	0.163	0.163
	CMF100	0.025	0.00300	0.680	0.680
	CMF200	0.08	0.00959	2.18	2.18
	CMF300	0.25	0.02998	6.80	6.80
	CMF400	1.50	0.17985	40.91	40.91
	CMFHC2	2.5	0.29939	68	68
	CMFHC3	5.0	0.60	136	136
	CMFHC4	7.5	0.90	204	204
F-Series	F025	0.0065	0.0008	0.1765	0.1765
	F050	0.020	0.002	0.544	0.544
	F100	0.080	0.010	2.177	2.177
	F200	0.256	0.031	6.965	6.965
	F300	0.80	0.096	21.76	21.76
H-Series	H025	0.0065	0.0008	0.1765	0.1765
	H050	0.020	0.002	0.544	0.544
	H100	0.080	0.010	2.177	2.177
	H200	0.256	0.031	6.965	6.965
	H300	0.80	0.096	21.76	21.76
T-Series	T025	0.004	0.00048	0.11	0.11
	T050	0.022	0.00264	0.61	0.61
	T075	0.080	0.00960	2.24	2.24
	T100	0.176	0.00211	4.80	4.80
	T150	0.512	0.06146	13.92	13.92
R-Series	R025	0.01	0.0012	0.27	0.27
	R050	0.03	0.0036	0.82	0.82
	R100	0.12	0.0144	3.27	3.27
	R200	0.32	0.0384	8.71	8.71
LF-Series	LF2M	0.000005	0.0000006	0.00013	0.00013
	LF3M	0.000037	0.000004	0.00100	0.00100
	LF4M	0.00015	0.00002	0.00400	0.00400

(1) Based on standard temperature and pressure conditions of water at 68 to 77 °F (20 to 25 °C) and 15 to 30 psig (1 to 2 bar).

Line sizes and maximum flow rates

		Line size		Maximum flow rate			
Family	**Model**	**inches**	**mm**	**lb/min**	**gal/min**	**kg/h**	**l/h**
ELITE	CMFS010	1/10–1/6	2–4	4	0.5	108	108
	CMFS015	1/6–1/4	4–6	12	1.5	330	330
	CMF010	1/10–1/6	2–4	4	0.5	108	108
	CMF025	1/4–1/2	6–12	80	10	2180	2180
	CMF050	1/2–1	12–25	250	30	6800	6800
	CMF100	1–2	25–50	1000	120	27,200	27,200
	CMF200	2–3	50–75	3200	385	87,100	87,100
	CMF300	3–4	75–100	10,000	1200	272,000	272,000
	CMF400	4–6	100–150	20,000	2400	545,000	545,000
	CMFHC2	6–8	150–200	54,000	6,471	1,470,000	1,470,000
	CMFHC3	8–10	200–250	94,000	11,227	2,550,000	2,550,000
	CMFHC4	10–12	250–300	120,000	14,379	3,265,870	3,265,870
F-Series	F025	1/4–1/2	6–12	100	12	2720	2720
	F050	1/2–1	12–25	300	36	8160	8160
	F100	1–2	25–50	1200	144	32,650	32,650
	F200	2–3	50–75	3200	384	87,100	87,100
	F300	3–4	75–100	10,000	1200	272,000	272,000
H-Series	H025	1/4–1/2	6–12	76	9	2068	2068
	H050	1/2–1	12–25	180	22	4900	4900
	H100	1–2	25–50	820	98	22,320	22,320
	H200	2–3	50–75	2350	282	63,960	63,960
	H300	3–4	75–100	10,000	1200	272,000	272,000
T-Series	T025	1/4–1/2	6–12	25	3	680	680
	T050	1/2–3/4	12–20	140	17	3800	3800
	T075	3/4–1	20–25	500	60	14,000	14,000
	T100	1–1 1/2	25–40	1100	132	30,000	30,000
	T150	1 1/2–2	40–50	3200	384	87,000	87,000
R-Series	R025	1/4–1/2	6–12	100	12	2720	2720
	R050	1/2–1	12–25	300	36	8160	8160
	R100	1–2	25–50	1200	144	32,650	32,650
	R200	2–3	50–75	3200	384	87,100	87,100
LF-Series	LF2M	1/32–1/8	0.8–3	0.014	0.0017	0.38	0.38
	LF3M	1/16–1/4	1.5–6	0.037	0.0043	1.00	1.00
	LF4M	1/8–1/4	3–6	0.992	0.119	27.00	27.00
7835		1	25	551	66	15,000	15,000
7845/7847		1	25	551	66	15,000	15,000
7812, 7826, 7828		Line sizes and flow rates are installation-dependent. Contact your sales representative.					

Typical gas flow rates (air)

Flow rates that produce approximately 10 psid (0.68 bar) pressure drop on air at 68 °F (20 °C) and 100 psi (6.8 bar)

		Mass flow		Volume flow[1]	
Family	**Model**	**lb/min**	**kg/h**	**SCFM**	**Nm^3/h**
ELITE	CMFS010	0.3	8	4	6
	CMFS015	1	24	12	18
	CMF010	0.3	8	4	6
	CMF025	5	130	60	100
	CMF050	15	400	190	310
	CMF100	50	1300	660	1000
	CMF200	140	3800	1900	2900
	CMF300	380	10,000	5000	8000
	CMF400	1000	27,000	13,000	21,000
	CMFHC2	1500	41,000	20,000	31,000
	CMFHC3	2500	68,000	33,000	52,000
	CMFHC4	4000	110,000	53,000	84,000
F-Series	F025	5	130	60	100
	F050	15	400	190	310
	F100	50	1300	660	1000
	F200	140	3800	1900	2900
	F300	310	8400	4100	6500
H-Series	H025	5	130	60	100
	H050	15	400	190	310
	H100	50	1300	660	1000
	H200	80	2400	1200	1800
	H300	310	8400	4100	6500
T-Series	T025	2	45	20	40
	T050	12	320	160	270
	T075	45	1190	580	990
	T100	100	2620	1280	2170
	T150	275	7430	3630	6170
R-Series	R025	5	130	60	100
	R050	15	400	190	310
	R100	50	1300	660	1000
	R200	140	3800	1900	2900
LF-Series	LF2M	0.004	0.1	0.05	0.09
	LF3M	0.008	0.4	0.2	0.36
	LF4M	0.08	3.6	1.8	3
7812		n/a	n/a	0.006	0.01
3098		n/a	n/a	0.127	0.216

(1) Standard (SCFM) reference conditions are 14.7 psia and 68 °F. Normal (Nm^3/hr) reference conditions are 1.013 bar and 0 °C.

Typical gas flow rates (natural gas)

Flow rates that produce approximately 50 psid (3.4 bar) pressure drop on natural gas (MW 16.675) at 68 °F (20 °C) and 500 psi (34.0 bar)

		Mass flow		Volume flow[(1)]	
Family	**Model**	**lb/min**	**kg/h**	**SCFM**	**Nm^3/h**
ELITE	CMFS010	1	30	30	45
	CMFS015	3	90	90	130
	CMF010	1	30	30	45
	CMF025	15	410	350	580
	CMF050	42	1100	970	1600
	CMF100	150	4000	3400	5900
	CMF200	420	11,000	9700	16,000
	CMF300	1100	30,000	25,000	43,000
	CMF400	3000	82,000	69,000	120,000
	CMFHC2	4400	120,000	100,000	160,000
	CMFHC3	7300	200,000	170,000	270,000
	CMFHC4	11,000	300,000	250,000	400,000
F-Series	F025	15	410	350	580
	F050	42	1100	970	1600
	F100	150	4000	3400	5900
	F200	420	11,000	9700	16,000
	F300	900	24,000	20,000	35,000
H-Series	H025	15	410	350	580
	H050	42	1100	970	1600
	H100	150	4000	3400	5900
	H200	330	9000	7600	12,700
	H300	900	24,000	20,000	35,000
T-Series	T025	6	170	140	240
	T050	45	1250	1050	1800
	T075	170	4600	3800	6500
	T100	370	10,000	8400	14,300
	T150	1050	28,400	23,800	40,400
R-Series	R025	15	410	350	580
	R050	42	1100	970	1600
	R100	150	4000	3400	5900
	R200	420	11,000	9700	16,000
7812		n/a	n/a	0.006	0.01
3098		n/a	n/a	0.127	0.216

(1) Standard (SCFM) reference conditions are 14.7 psia and 68 °F. Normal (Nm^3/hr) reference conditions are 1.013 bar and 0 °C.

Standard or Normal Volumetric Capability

Standard and normal volumes are “quasi mass” flow units for any fixed composition fluid. Standard and normal volumes do not vary with operating pressure, temperature, or density. With knowledge of density at standard or normal conditions (available from reference sources), a Micro Motion meter can be configured to output in standard or normal volume units without the need for pressure, temperature, or density compensation. Contact your local sales representative for more information.

Temperature ratings

Family	Model	°F[1]	°C[1]
ELITE	Standard models	–400 to +400	–240 to +204
	High-temperature models	–58 to +662	–50 to +350
F-Series	Standard models	–150 to +400	–100 to +204
	High-temperature models	–40 to +662	–40 to +350
H-Series	All models	–150 to +400	–100 to +204
T-Series	All models	–60 to +300	–50 to +150
R-Series	All models	–58 to +257	–50 to +125
LF-Series	All models	+32 to +149	0 to +65
7835		–58 to +230	–50 to +110
7845/7847		–58 to +320	–50 to +160
7826/7828		–58 to +392	–50 to +200
7812		–4 to +257[2]	–20 to +125[2]
3098		–22 to +122	–30 to +50

(1) Temperature rating may be affected by electronics, hazardous area classification, and/or ambient temperature.

(2) High-temperature option shown. Standard temperature range is –4 to +185 °F (–20 to +85 °C)

Pressure ratings

Family	Model	Material	psi	bar
ELITE	Standard models	Stainless steel	1450–1813	100–125
		Nickel alloy	2465–3263	170–225
	CMFS010P CMFS010H CMFS015P CMFS015H CMF010P	Nickel alloy(1)	6000	413
	CMF400P	Nickel alloy	2973	205
F-Series	Standard models	Stainless steel	1450	100
		Nickel alloy	2160	148
	F025P	Stainless steel	2300	158
	F050P	Stainless steel	5000	345
H-Series	All models	Stainless steel	1450	100
T-Series	All models	Titanium	1450	100
R-Series	All models	Stainless steel	1450	100
LF-Series	All models	Stainless steel	1450	100
7835		Ni-Span-C and stainless steel	2175	150
7845		Stainless steel	1450	100
7847		Stainless steel and nickel alloy	290	20
7826/7828		Stainless steel and nickel alloy	3000	207
7812		Ni-Span-C	3625	250
3098		Ni-Span-C	145	10

(1) Models CMF010P, CMFS010P, CMFS015P, and CMF400P have nickel alloy tubes and stainless steel fittings.

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WWW.micromotion.com

Emerson Process Management
Micro Motion Americas
Worldwide Headquarters
7070 Winchester Circle
Boulder, Colorado USA 80301
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 3238 3527
Venezuela	T: 58 26 1792 1858

Emerson Process Management
Micro Motion Europe/Middle East

Central & Eastern Europe	T: +41 41 7686 111
Dubai	T: +971 4 811 8100
France	T: 0800 917 901
Germany	T: 0800 182 5347
Italy	T: 8008 77334
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Belgium	T: +32 2 716 77 11
Spain	T: +34 913 586 000
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Russia/CIS	T: +7 495 981 9811

Emerson Process Management
Micro Motion 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
Korea	T: (82) 2 3438 4600
Singapore	T: (65) 6 777 8211

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