Micro Motion[®] H-Series Hygienic Mass, Density, and Volume Meter

With MVD[™] Technology



- Mass flow accuracy to ±0.10%, volume flow accuracy to ±0.15%, and density accuracy to ±0.001 g/cc (±1.0 kg/m³) on liquids
- 32 Ra (0.8 μ m) internal surface finish, with 15 Ra (0.4 μ m) available
- EHEDG approved and 3-A authorized
- Self-draining
- Optional secondary containment





Micro Motion[®] H-Series hygienic meter

Micro Motion H-Series meters offer highly accurate flow and density measurement for virtually any process fluid and with cleanability unmatched by any other dual-tube Coriolis flowmeter.

Hygienic standards

Micro Motion H-Series meters feature a 32 Ra $(0.8 \ \mu m)$ internal surface finish, which is both 3-A authorized and EHEDG certified. All H-Series meters can be installed to be self-draining.

Micro Motion H-Series meters are also available with an improved surface finish option. This option provides a fully electro-polished flow path with an average surface finish of 15 Ra (0.4 μ m).

3-A

Micro Motion H-Series meters are authorized to 3-A Sanitary Standards for Milk and Dairy Products.

EHEDG

Micro Motion H-Series meters are approved by the European Hygienic Equipment Design Group. H-Series sensors comply with the hygienic criteria of Machinery Directive 98/37/EC, annex 1 (additional essential health and safety requirements for certain categories of machinery), section 2.1 (agri-foodstuffs machinery). Test results show that Micro Motion H-Series sensors can be cleaned in place (CIP) at least as well as reference pipe.

ASME BPE

All Micro Motion H-Series meters are designed according to strict ASME guidelines for Bio-Processing Equipment.

Secondary containment

Micro Motion H-Series meters can be purchased with an optional secondary containment rating. This rating is supported by a pneumatic leak test of the sensor enclosure, along with documentation that describes how the safety of the sensor has been verified according to ASME B31.3 standards.

Product selector

Micro Motion offers an online product selector and configurator for finding the best products to fit your application. To use this program, visit our web site at **www.micromotion.com**.

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Liquid flow performance

		Mass		Volume ⁽¹⁾	
		lb/min	kg/h	gal/min	l/h
Maximum flow rate	H025	76	2068	9	2068
	H050	180	4900	22	4900
	H100	820	22,320	98	22,320
	H200	2350	63,960	282	63,960
	H300	10,000	272,000	1200	272,000
Mass flow accuracy ⁽²⁾	Transmitter with MVD Technology	±0.10% of ra	ate ⁽³⁾⁽⁴⁾		
	All other transmitters ⁽⁵⁾	±0.15% of ra	ate ±[(zero stability	/ flow rate) × 100]%	6 of rate
Volume flow accuracy ⁽²⁾	Transmitter with MVD Technology	±0.15% of ra	ate ⁽⁶⁾⁽⁷⁾		
Repeatability	Transmitter with MVD Technology	±0.05% of ra	ate ⁽³⁾		
	All other transmitters	±0.10% of ra	ate ±[½(zero stabilit	y / flow rate) × 100]% of rate
		lb/min	kg/h	gal/min	l/h
Zero stability	H025	0.0065	0.1765	0.0008	0.1765
	H050	0.020	0.544	0.002	0.544
	H100	0.080	2.177	0.010	2.177
	11000	0.256	6.965	0.031	6.965
	H200	0.230	0.303	0.001	0.905

(1) Volume measurement is based on a process-fluid density of 1 g/cc. For fluids with density other than 1 g/cc, the maximum volume flow rate equals the maximum mass flow rate divided by the fluid's density.

(2) Stated flow accuracy includes the combined effects of repeatability, linearity, and hysteresis.

(3) When flow rate < (zero stability / 0.001), then mass flow accuracy = ±[(zero stability / flow rate) × 100]% of rate and repeatability = ±[½(zero stability / flow rate) × 100]% of rate.</p>

(4) When ordered with the ±0.15% calibration option, mass flow accuracy on liquid = ±0.15% when flow rate ≥ (zero stability / 0.0015). When flow rate < (zero stability / 0.0015), then accuracy = ±[(zero stability / flow rate) × 100]% of rate.</p>

(5) Model H300 sensors are only compatible with MVD Technology transmitters.

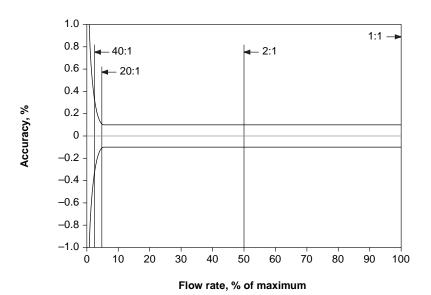
(6) When flow rate < (zero stability / 0.001), then volume flow accuracy on liquid = ±[1.5 x (zero stability / flow rate) x 100]% of rate and repeatability = ±[½(zero stability / flow rate) x 100]% of rate.</p>

(7) When ordered with the ±0.15% calibration option, volume flow accuracy on liquid = ±0.25% when flow rate ≥ (zero stability / 0.0017). When flow rate < (zero stability / 0.0017), then volume accuracy on liquid = ±[1.5 × (zero stability / flow rate) × 100]% of rate.</p>

Liquid flow performance continued

Typical accuracy, turndown, and pressure drop with transmitter with MVD Technology

To determine accuracy, turndown, and pressure drop with your process variables, use the Micro Motion product selector and configurator, available at **www.micromotion.com**.



Turndown	40:1	20:1	2:1
Accuracy (± %)	0.26	0.13	0.10
Pressure drop			
psi	0.1	0.3	14.2
bar	0.01	0.02	0.98

Density performance (liquid only)

Accuracy ⁽¹⁾	±0.001 g/cm ³	±1.0 kg/m ³
Repeatability	±0.0005 g/cm ³	±0.5 kg/m ³
Range	Up to 5 g/cm ³	Up to 5000 kg/m ³

 Stated accuracy and repeatability with calibration option 1 (see page 24). With other calibration options, accuracy is ±0.002 g/cm³ (2.0 kg/m³) and repeatability is ±0.001 g/cm³ (±1.0 kg/m³).

Gas flow performance

When selecting sensors for gas applications, measurement accuracy is a function of fluid mass flow rate independent of operating temperature, pressure, or composition. However, pressure drop through the sensor is dependent upon operating temperature, pressure, and fluid composition. Therefore, when selecting a sensor for any particular gas application, it is highly recommended that each sensor be sized using Micro Motion's product selector, available at **www.micromotion.com**.

		Mass		Volume ⁽¹⁾	
		lb/min	kg/h	SCFM	Nm³/h
Typical flow rates th and 100 psi (6.8 bar	nat produce approximately 10)) psid (0.68 b	ar) pressure drop	on <i>air</i> at 68 °F (20) °C)
	H025	2	55	30	40
	H050	6	180	90	140
	H100	35	900	440	700
	H200	80	2380	1160	1840
	H300	490	14,900	7270	11,500
Typical flow rates th (20 °C) and 500 psi	nat produce approximately 50 (34 bar)) psid (3.4 ba	r) pressure drop o	n <i>natural gas</i> (MV	V 16.675) at 68 °F
	H025	7	210	180	280
	H050	25	690	580	970
	H100	125	3410	2900	4580
	H200	330	9000	7610	12,690
	H300	1860	51,000	43,330	72,250
Accuracy ⁽²⁾	Transmitter with MVD Technology	±0.50% of ra	ate ⁽³⁾		
	All other transmitters ⁽⁴⁾	±0.70% of ra	ate ±[(zero stability	/ flow rate) × 100]%	% of rate
Repeatability	Transmitter with MVD Technology	±0.25% of ra	ate ⁽³⁾		
	All other transmitters ⁽⁴⁾	±0.35% of ra	ate ±[(zero stability	/ flow rate) × 100]%	6 of rate
		lb/min	kg/h		
Zero stability	H025	0.0065	0.18		
· · ···· ·	H050	0.020	0.54		
	H100	0.080	2.18		
	H200	0.256	6.97		
	H300	0.80	21.76		

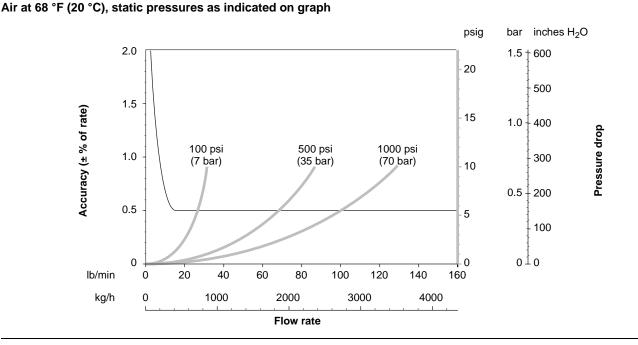
(1) Standard (SCFM) reference conditions are 14.7 psia and 68 °F. Normal (Nm³/h) reference conditions are 1.013 bar and 0 °C.

(2) Stated flow accuracy includes the combined effects of repeatability, linearity, and hysteresis.

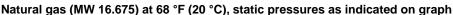
(3) When flow rate < (zero stability / 0.005), then accuracy = ±[(zero stability / flow rate) × 100]% of rate and repeatability = ±[½(zero stability / flow rate) × 100]% of rate.</p>

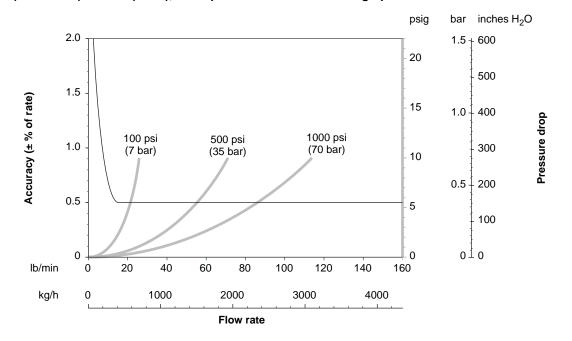
(4) Model H300 is only compatible with transmitters with MVD Technology.

Gas flow performance continued



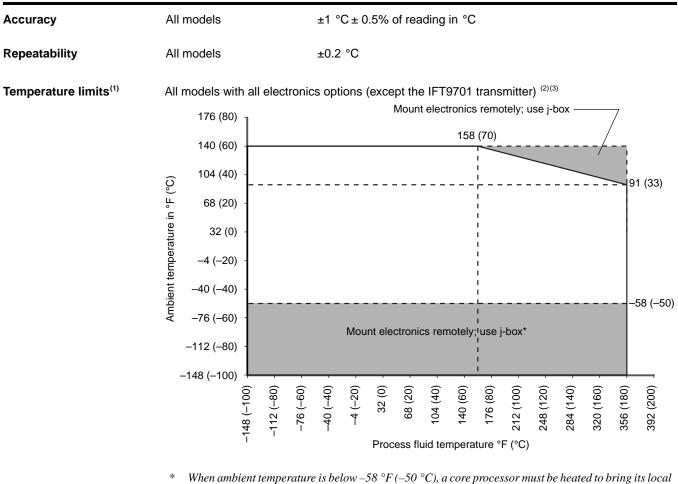
Typical accuracy and pressure drop with H100 with MVD Technology





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 specifications

* When ambient temperature is below -58 °F (-50 °C), a core processor must be heated to bring its local ambient temperature to between -58 °F (-50 °C) and +140 °F (+60 °C). Long-term storage of electronics at ambient temperatures below -58 °F (-50 °C) is not recommended.

Sensors with integral IFT9701 transmitter ⁽⁴⁾	Ambient temperature: +131 °F (+55 °C) maximum
	Process temperature: +257 °F (+125 °C) maximum

(1) Temperature limits may be further restricted by hazardous area approvals. See pages 10–16.

(2) The difference in temperature between the process fluid and the case cannot exceed 120 °F (66 °C) for H300 sensors.

(3) The temperature extender option allows the sensor case to be insulated without covering the transmitter, core processor, or junction box, but does not affect temperature ratings.

(4) Refer to the IFT9701 Product Data Sheet for more information about its temperature limits.

Pressure ratings

		psi	bar		
Flow tube rating ⁽¹⁾	Sensor with standard surface finish	1450	100		
	Sensor with improved surface finish	1015	70		
PED compliance	Sensors comply with council directive	97/23/EC o	of 29 May 1997 o	n Pressure	Equipment
				•	essure used to
			31.3 secondary nent rating ⁽¹⁾		e ASME B31.3 ry containment rating
Housing rating ⁽²⁾	H025	containm	nent rating ⁽¹⁾	seconda	ry containment rating
Housing rating ⁽²⁾	H025 H050	containm psi	bar	seconda psi	ry containment rating bar
Housing rating ⁽²⁾		containm psi 166	bar 11.4	seconda psi 1884	ry containment rating bar 130
Housing rating ⁽²⁾	H050	containm psi 166 135	hent rating ⁽¹⁾ bar 11.4 9.3	seconda psi 1884 1530	ry containment rating bar 130 105

(1) Pressure rating at 77 °F (25 °C), according to ASME B31.3. For temperatures above 300 °F (148 °C), pressure needs to be derated as follows. Linear interpolation may be used between specified temperatures.

	Flow tubes (316L sensors)	Housing (all sensors)
up to 300 °F (up to 148 °C)	None	None
at 400 °F (204 °C)	7.2% derating	5.4% derating

(2) Sensor housing is only rated when the secondary containment case option is purchased.

Vibration limits

Meets IEC 68.2.6, endurance sweep, 5 to 2000 Hz, 50 sweep cycles at 1.0 g

Environmental effects

Process temperature effect	 Process temperature effect is defined as: For mass flow measurement, the worst-case zero offset due to process fluid temperature change away from the zeroing temperature. For density measurement, the maximum measurement offset due to process fluid temperature change away from the density calibration temperature. 						
		Process ten	:t				
		% of maximum flow rate per °C	on density ad	ccuracy per °C ⁽¹⁾			
			g/cc	kg/m ³			
	H025	±0.00175	±0.0001	±0.1			
	H050	±0.00175	±0.0001	±0.1			
	H100	±0.00175	±0.0001	±0.1			
	H200	±0.00175	±0.0001	±0.1			
	H300	±0.0040	±0.0001	±0.1			
	be corrected.						
		Pressure effec	t on flow accu	racy			
				racy			
		Pressure effec	t on flow accu	racy			
	be corrected.	Pressure effec % of rate per psi	t on flow accur % of rate per	racy			
	H025 H050 H100	Pressure effec % of rate per psi –0.001	t on flow accur % of rate per -0.015 -0.015 -0.015	racy			
	H025 H050	Pressure effec % of rate per psi -0.001 -0.001 -0.001 -0.001	t on flow accur % of rate per –0.015 –0.015	racy			
	H025 H050 H100	Pressure effec % of rate per psi -0.001 -0.001 -0.001	t on flow accur % of rate per -0.015 -0.015 -0.015	racy			
	be corrected. H025 H050 H100 H200	Pressure effec % of rate per psi -0.001 -0.001 -0.001 -0.001	t on flow accur % of rate per -0.015 -0.015 -0.015 -0.015 -0.015 -0.015	racy bar			
	be corrected. H025 H050 H100 H200	Pressure effec % of rate per psi -0.001 -0.001 -0.001 -0.001 -0.001	t on flow accur % of rate per -0.015 -0.015 -0.015 -0.015 -0.015 -0.015	racy · bar uracy			
	be corrected. H025 H050 H100 H200	Pressure effec % of rate per psi -0.001 -0.001 -0.001 -0.001 -0.001 Pressure effect of	t on flow accur % of rate per -0.015 -0.015 -0.015 -0.015 -0.015 on density acc	racy · bar uracy			
	be corrected. H025 H050 H100 H200 H300	Pressure effect % of rate per psi -0.001 -0.001 -0.001 -0.001 9.001 Pressure effect of g/cc per psi	t on flow accur % of rate per -0.015 -0.015 -0.015 -0.015 -0.015 on density acc kg/m ³ per ba	racy · bar uracy			
	be corrected. H025 H050 H100 H200 H300 H025	Pressure effect % of rate per psi -0.001 -0.001 -0.001 -0.001 -0.001 g/cc per psi None	t on flow accur % of rate per -0.015 -0.015 -0.015 -0.015 -0.015 on density acc kg/m ³ per ba None	racy · bar uracy			
	be corrected. H025 H050 H100 H200 H300 H025 H050	Pressure effect % of rate per psi -0.001 -0.001 -0.001 -0.001 -0.001 g/cc per psi None -0.0003	t on flow accur % of rate per -0.015 -0.015 -0.015 -0.015 -0.015 on density acc kg/m ³ per ba None -0.43	racy · bar uracy			

(1) For -100 °C and above.

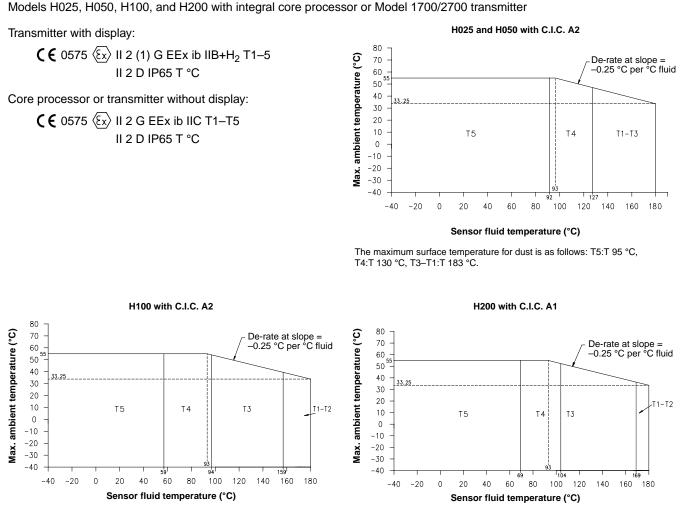
(2) Micro Motion uses a factory calibration pressure of 20 psig (1.4 bar).

Hazardous area classifications

CSA and CSA C-US

Models H025, H050, H100, and H200 with integrally mounted IFT9701 transmitter	Ambient temperature: +140 °F max. (+60 °C max.) Class I, Div. 2, Groups A, B, C, and D Class II, Div. 2, Groups F and G
Models H025, H050, H100, and H200 with junction box	Ambient temperature: +140 °F max. (+60 °C max.) Class I, Div. 1, Groups C and D Class I, Div. 2, Groups A, B, C, and D Class II, Div. 1, Groups E, F, and G
Models H025, H050, H100, and H200 with core processor or Model 1700/2700 transmitter	Ambient temperature: -40 to +140 °F (-40 to +60 °C) Class I, Div. 1, Groups C and D Class I, Div. 2, Groups A, B, C, and D Class II, Div. 1, Groups E, F, and G
Model H300 with junction box	Ambient temperature: +140 °F max. (+60 °C max.) Class I, Div. 1, Groups C and D Class I, Div. 2, Groups A, B, C, and D Class II, Div. 1, Groups E, F, and G
Model H300 with core processor or Model 1700/2700 transmitter	Ambient temperature: –40 to +140 °F (–40 to +60 °C) Class I, Div. 1, Groups C and D Class I, Div. 2, Groups A, B, C, and D Class II, Div. 1, Groups E, F, and G

ATEX⁽¹⁾

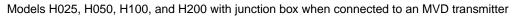


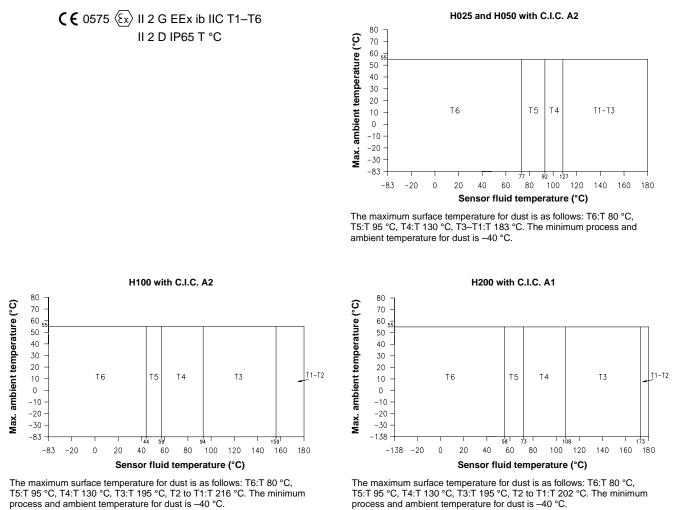
The maximum surface temperature for dust is as follows: T5:T 95 °C, T4:T 130 °C, T3:T 195 °C, T2–T1:T 216 °C.

The maximum surface temperature for dust is as follows: T5:T 95 °C, T4:T 130 °C, T3:T 195 °C, T2 to T1:T 206 °C.

(1) ATEX "T" rating depends on the maximum temperature shown in the graphs above.

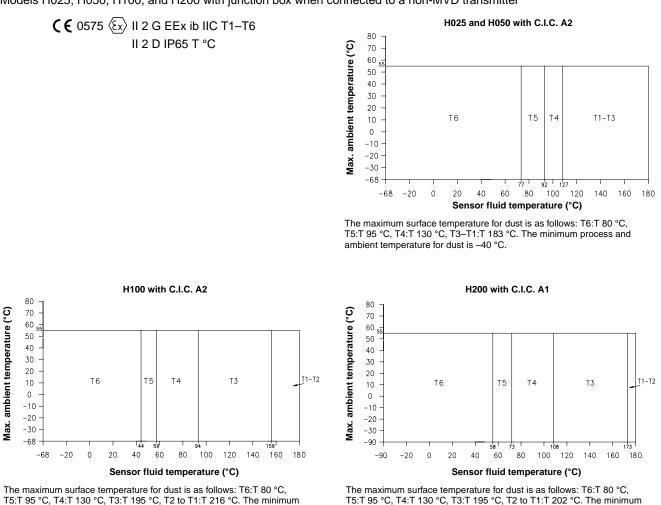
ATEX⁽¹⁾





(1) ATEX "T" rating depends on the maximum temperature shown in the graphs above.

ATEX⁽¹⁾



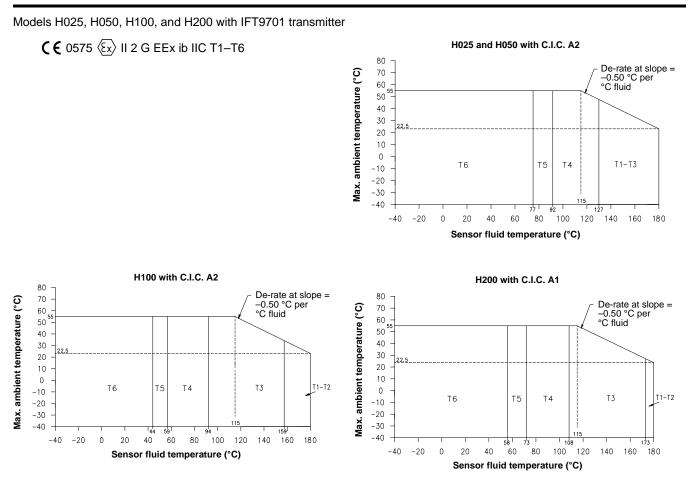
Models H025, H050, H100, and H200 with junction box when connected to a non-MVD transmitter

(1) ATEX "T" rating depends on the maximum temperature shown in the graphs above.

process and ambient temperature for dust is -40 °C.

process and ambient temperature for dust is -40 °C.

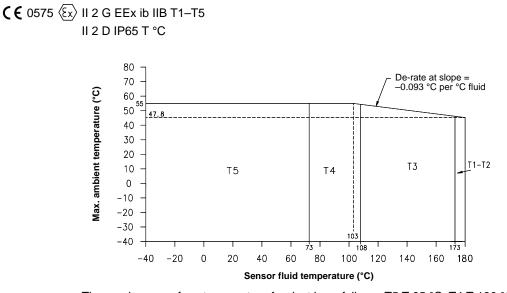
ATEX⁽¹⁾

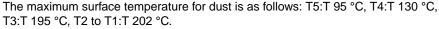


(1) ATEX "T" rating depends on the maximum temperature shown in the graphs above.

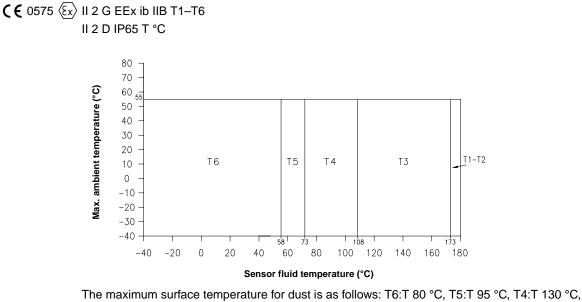
ATEX⁽¹⁾

Model H300 with core processor or Model 1700/2700 transmitter





Model H300 with junction box when connected to an MVD transmitter



T3:T 195 °C, T2 to T1:T 202 °C.

(1) ATEX "T" rating depends on the maximum temperature shown in the graphs above.

Materials of construction

Wetted parts ⁽¹⁾	Sensor with standard surface finish	316L stainless steel, 32 Ra (0.8 $\mu\text{m})$ surface finish
	Sensor with improved surface finish	316L stainless steel, 15 Ra (0.4 $\mu\text{m})$ electro-polished surface finish
Housing	Sensor	304L stainless steel
	Core processor	CF-3M stainless steel or polyurethane-painted aluminum; NEMA 4X (IP 65)
	Junction box	Polyurethane-painted aluminum; NEMA 4X (IP 65)

(1) General corrosion guidelines do not account for cyclical stress, and therefore should not be relied upon when choosing a wetted material for your Micro Motion flowmeter. Please refer to Micro Motion's corrosion guide for material compatibility information.

Weight

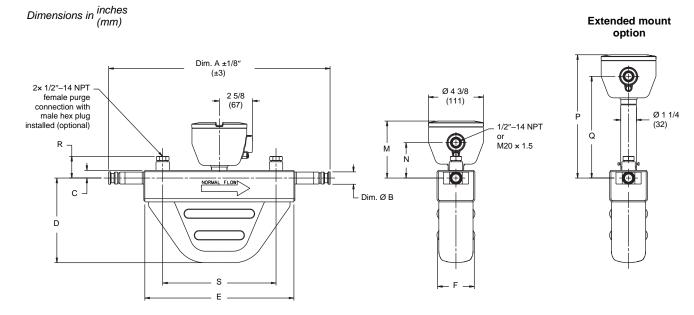
Weights provided are the weight of the flowmeter with sanitary fittings.

	H025	025 H050		H100		H200		H300		
	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Sensor with integrally mounted IFT9701 transmitter	14	7	16	7	24	11	47	21	_	—
Sensor with integrally mounted core processor ⁽¹⁾	13	6	15	7	23	11	42	19	136	62
Sensor with extended core processor ⁽¹⁾	14	7	16	7	24	11	43	20	137	62
Sensor with integrally mounted Model 1700 or 2700 transmitter	15	7	17	8	25	12	47	22	142	64
Sensor with junction box	9	4	10	5	18	8	41	19	135	61
Sensor with extended junction box	10	5	11	5	19	9	42	19	136	62

(1) Weights given are for sensor with stainless steel core processor. Subtract 4 lb (2 kg) for aluminum core housing option (electronics interface codes Q, V, W, and Y).

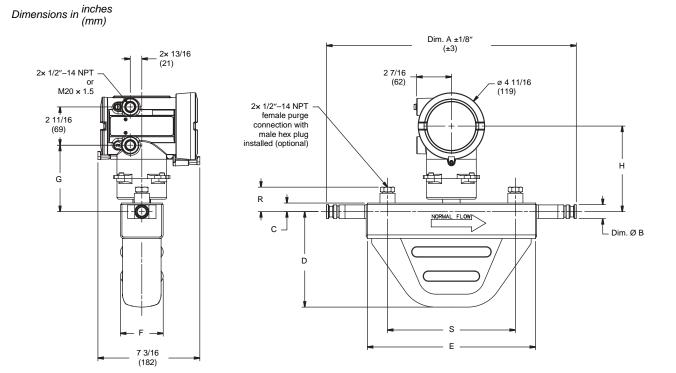
Dimensions

Sensor with core processor



		Dimensions ⁽¹⁾									
Model		С	D	E	F	М	N	Ρ	Q	R	S
H025	in	5/8	5 1/8	9 3/4	2 13/16	4 7/16	2 11/16	9 13/16	8 1/16	1 3/4	7 1/2
	(mm)	(15)	(130)	(247)	(72)	(112)	(69)	(249)	(205)	(44)	(191)
H050	in	5/8	6 3/4	11 7/8	2 15/16	4 7/16	2 11/16	9 13/16	8 1/16	1 3/4	9
	(mm)	(15)	(171)	(301)	(74)	(112)	(69)	(249)	(205)	(44)	(229)
H100	in	7/8	9 1/8	14 7/8	4 1/8	4 11/16	2 15/16	10 1/16	8 5/16	2	12
	(mm)	(22)	(232)	(378)	(104)	(119)	(75)	(255)	(212)	(50)	(305)
H200	in	1 3/4	12 9/16	17 7/8	5 5/8	5 9/16	3 7/8	10 15/16	9 1/4	2 7/8	14
	(mm)	(44)	(319)	(454)	(144)	(141)	(98)	(278)	(234)	(73)	(356)
H300	in	3 1/2	7 1/4	27 3/4	5 7/8	7 1/4	5 9/16	12 5/8	10 15/16	4 1/2	21
	(mm)	(89)	(185)	(704)	(150)	(184)	(141)	(321)	(277)	(114)	(533)

Dimensions continued

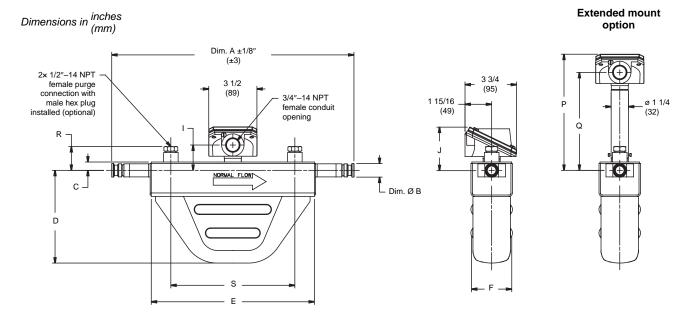


Sensor with integrally mounted Model 1700 or 2700 transmitter

		Dimensio	ons ⁽¹⁾						
Model		С	D	E	F	G	Н	R	S
H025	in	5/8	5 1/8	9 3/4	2 13/16	4 11/16	6 1/16	1 3/4	7 1/2
	(mm)	(15)	(130)	(247)	(72)	(119)	(154)	(44)	(191)
H050	in	5/8	6 3/4	11 7/8	2 15/16	4 11/16	6 1/16	1 3/4	9
	(mm)	(15)	(171)	(301)	(74)	(119)	(154)	(44)	(229)
H100	in	7/8	9 1/8	14 7/8	4 1/8	4 15/16	6 15/16	2	12
	(mm)	(22)	(232)	(378)	(104)	(126)	(160)	(50)	(305)
H200	in	1 3/4	12 9/16	17 7/8	5 5/8	5 13/16	7 13/16	2 7/8	14
	(mm)	(44)	(319)	(454)	(144)	(148)	(182)	(73)	(356)
H300	in	3 1/2	7 1/4	27 3/4	5 7/8	7 1/2	8 7/8	4 1/2	21
	(mm)	(89)	(185)	(704)	(150)	(191)	(225)	(114)	(533)

Dimensions continued

Sensor with junction box

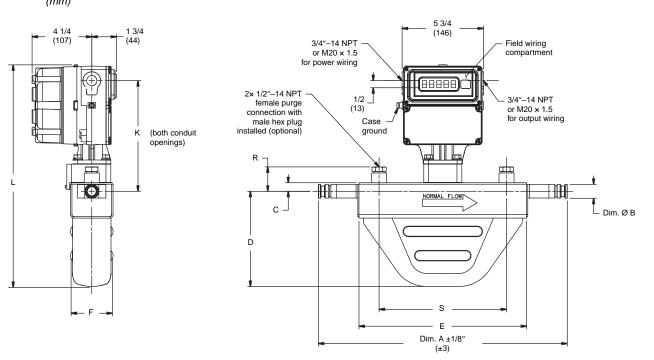


		Dimensions ⁽¹⁾										
Model		С	D	E	F	I	J	Р	Q	R	S	
H025	in	5/8	5 1/8	9 3/4	2 13/16	1 13/16	3 3/16	8 7/16	7 1/8	1 3/4	7 1/2	
	(mm)	(15)	(130)	(247)	(72)	(47)	(80)	(214)	(181)	(44)	(191)	
H050	in	5/8	6 3/4	11 7/8	2 15/16	1 13/16	3 3/16	8 7/16	7 1/8	1 3/4	9	
	(mm)	(15)	(171)	(301)	(74)	(47)	(80)	(214)	(181)	(44)	(229)	
H100	in	7/8	9 1/8	14 7/8	4 1/8	2 1/16	3 7/16	8 11/16	7 3/8	2	12	
	(mm)	(22)	(232)	(378)	(104)	(53)	(87)	(220)	(187)	(50)	(305)	
H200	in	1 3/4	12 9/16	17 7/8	5 5/8	3	4 5/16	9 9/16	8 1/4	2 7/8	14	
	(mm)	(44)	(319)	(454)	(144)	(76)	(109)	(243)	(209)	(73)	(356)	
H300	in	3 1/2	7 1/4	27 3/4	5 7/8	4 11/16	6	11 3/8	10 1/16	4 1/2	21	
	(mm)	(89)	(185)	(704)	(150)	(119)	(152)	(289)	(255)	(114)	(533)	

Dimensions continued

Sensor with integrally mounted IFT9701 transmitter

Dimensions in ^{inches} (mm)



		Dimensio	ons ⁽¹⁾						
Model		C	D	Е	F	К	L	R	S
H025	in	5/8	5 1/8	9 3/4	2 13/16	7 13/16	14 1/16	1 3/4	7 1/2
	(mm)	(15)	(130)	(247)	(72)	(199)	(358)	(44)	(191)
H050	in	5/8	6 3/4	11 7/8	2 15/16	7 13/16	15 11/16	1 3/4	9
	(mm)	(15)	(171)	(301)	(74)	(199)	(398)	(44)	(229)
H100	in	7/8	9 1/8	14 7/8	4 1/8	8 1/16	18 5/16	2	12
	(mm)	(22)	(232)	(378)	(104)	(205)	(466)	(50)	(305)
H200	in	1 3/4	12 9/16	17 7/8	5 5/8	8 15/16	22 5/8	2 7/8	14
	(mm)	(44)	(319)	(454)	(144)	(228)	(575)	(73)	(356)

Fitting options

	Fitting code	Dim. A face-to-face inches (mm)	Dim B. outside diam. inches (mm)
H025 fitting options ⁽¹⁾			
1/2-inch sanitary fitting (Tri-Clamp compatible)	121	15 15/16 (404)	1 (25)
15mm DIN 11851 hygienic coupling	222	16 5/8 (423)	Rd 34 × 1/8
15mm DIN 11864-1A aseptic coupling	676	16 5/8 (423)	Rd 34 × 1/8
BA IDF Type CLF-W aseptic fitting	665	15 15/16 (404)	1 3/8 (35)
H050 fitting options ⁽¹⁾			
8/4-inch sanitary fitting (Tri-Clamp compatible)	322	17 3/8 (441)	1 (25)
5mm DIN 11851 hygienic coupling	222	17 13/16 (452)	Rd 34 × 1/8
5mm DIN 11864-1A aseptic coupling	676	17 13/16 (452)	Rd 34 × 1/8
5A IDF Type CLF-W aseptic fitting	667	17 7/16 (442)	1 3/8 (35)
H100 fitting options ⁽¹⁾			
-inch sanitary fitting (Tri-Clamp compatible)	138	21 (533)	2 (50)
5mm DIN 11851 hygienic coupling	230	21 15/16 (558)	Rd 52 × 1/6
5mm DIN 11864-1A aseptic coupling	677	21 15/16 (558)	Rd 52 × 1/6
s IDF Type CLF2-W aseptic fitting	668	21 (553)	2 (50)
1200 fitting options ⁽¹⁾			
2-inch sanitary fitting (Tri-Clamp compatible)	352	21 5/16 (541)	2 1/2 (64)
0 mm DIN 11851 hygienic coupling	354	22 7/16 (569)	Rd 78 × 1/6
0 mm DIN 11864-1A aseptic coupling	678	22 7/16 (569)	Rd 78 × 1/6
s IDF Type CLF2-W aseptic fitting	669	21 5/16 (541)	2 1/2 (64)
1300 fitting options ⁽¹⁾			
B-inch sanitary fitting (Tri-Clamp compatible)	361	35 1/8 (893)	3 9/16 (91)
0N80 DIN 11851 aseptic coupling	685	35 1/8 (893)	Rd 110 × 1/4-7e 6e
0N80 DIN 11864-1A aseptic coupling	679	35 1/8 (893)	Rd 110 × 1/4-7e 6e
0N80 DIN 11864-2A aseptic flange	680	35 1/8 (893)	5 1/4 (133)
0N76.1 IDF (ISO 2853) aseptic coupling	664	35 1/8 (893)	3 1/2 (89)
s IDF Type CLF2-W aseptic fitting	687	35 1/8 (893)	3 9/16 (91)
DN76 SMS 1145 aseptic coupling	694	35 1/8 (893)	Rd 98 × 1/6-7e 6e

(1) Fittings listed here are standard options. Other types of fittings are available. Contact your local Micro Motion representative.

Ordering information

Standard surface finish H025S H-Series sensor; 1/4-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish H050S H-Series sensor; 1/2-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish H100S H-Series sensor; 2-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish H200S H-Series sensor; 1/4-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish H200S H-Series sensor; 3-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish H200S H-Series sensor; 1/4-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H050F H-Series sensor; 1/2-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H100F H-Series sensor; 1/2-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H100F H-Series sensor; 2-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H300F H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H300F H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H300F H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H300F H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-polished surface finish H300F H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 µm) electro-po	Model	Product description
 H-Series sensor; 1/4-inch; 316L stainless steel; 32 Ra (0.8 μm) surface finish H-Series sensor; 1/2-inch; 316L stainless steel; 32 Ra (0.8 μm) surface finish H-Series sensor; 1/2-inch; 316L stainless steel; 32 Ra (0.8 μm) surface finish H-Series sensor; 3-inch; 316L stainless steel; 32 Ra (0.8 μm) surface finish H-Series sensor; 3-inch; 316L stainless steel; 32 Ra (0.8 μm) surface finish H-Series sensor; 1/4-inch; 316L stainless steel; 32 Ra (0.8 μm) surface finish H-Series sensor; 1/2-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 1/2-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 1-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 1-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 1-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface fi		
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H100F H-Series sensor; 1-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H200F H-Series sensor; 2-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H300F H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish Code Process connection ### See fitting options on page 21. Code Case options N Standard case B Secondary containment with test report P Secondary containment with test report and purge fittings (1/2-inch NPT female) Code Electronics interface Q 4-wire polyurethane-painted aluminum integral core processor for remotely mounted transmitter with MVD Technology A 4-wire polyurethane-painted aluminum integral core processor with extended mount for remotely mounted transmitter with MVD Technology V 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W ⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect ¹⁰ installations D ⁽¹⁾ Stainless steel integral core processor for MVD Direct Connect ¹⁰ installations D ⁽¹⁾ Stainless steel integral core processor with ext	H025F	H-Series sensor; 1/4-inch; 316L stainless steel; 15 Ra (0.4 μ m) electro-polished surface finish
 H-Series sensor; 2-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish Code Process connection ### See fitting options on page 21. Code Case options N Standard case B Secondary containment with test report P Secondary containment with test report and purge fittings (1/2-inch NPT female) Code Electronics interface Q 4-wire polyurethane-painted aluminum integral core processor for remotely mounted transmitter with MVD Technology A -wire stainless steel integral core processor for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W⁽¹⁰⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect¹¹⁰ installations D⁽¹⁰⁾ Stainless steel integral core processor for MVD Direct Connect installations P⁽¹¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations P⁽¹¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations P⁽¹¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations P⁽¹¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations P⁽¹¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations P⁽¹²⁾ Integrally mounted IFT9701 transmitter R 9-wire polyurethane-painted aluminum junction box H 9-wire polyurethane-painted aluminum junction box with extended mount 	H050F	H-Series sensor; 1/2-inch; 316L stainless steel; 15 Ra (0.4 μ m) electro-polished surface finish
H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish Code Process connection ### See fitting options on page 21. Code Case options N Standard case B Secondary containment with test report and purge fittings (1/2-inch NPT female) Code Electronics interface Q 4-wire polyurethane-painted aluminum integral core processor for remotely mounted transmitter with MVD Technology A 4-wire stainless steel integral core processor for remotely mounted transmitter with MVD Technology V 4-wire polyurethane-painted aluminum integral core processor with extended mount for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W ⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect [™] installations D ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations P ⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations D ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations	H100F	H-Series sensor; 1-inch; 316L stainless steel; 15 Ra (0.4 μm) electro-polished surface finish
Code Process connection ### See fitting options on page 21. Code Case options N Standard case B Secondary containment with test report P Secondary containment with test report and purge fittings (1/2-inch NPT female) Code Electronics interface Q 4-wire polyurethane-painted aluminum integral core processor for remotely mounted transmitter with MVD Technology A -wire stainless steel integral core processor for remotely mounted transmitter with MVD Technology V 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W ⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect ^{1w} installations D ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations F ⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations E ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations	H200F	H-Series sensor; 2-inch; 316L stainless steel; 15 Ra (0.4 μ m) electro-polished surface finish
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N Standard case B Secondary containment with test report P Secondary containment with test report and purge fittings (1/2-inch NPT female) Code Electronics interface Q 4-wire polyurethane-painted aluminum integral core processor for remotely mounted transmitter with MVD Technology A 4-wire stainless steel integral core processor for remotely mounted transmitter with MVD Technology V 4-wire polyurethane-painted aluminum integral core processor with extended mount for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W ⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect ^{To} installations D ⁽¹⁾ Stainless steel integral core processor for MVD Direct Connect ^{To} installations V ⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations E ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations I ⁽²⁾ Integrally mounted IFT9701 transmitter R 9-wire polyurethane-painted aluminum junction box H 9-wire polyurethane-painted aluminum junction box with exte	###	See fitting options on page 21.
B Secondary containment with test report P Secondary containment with test report and purge fittings (1/2-inch NPT female) Code Electronics interface Q 4-wire polyurethane-painted aluminum integral core processor for remotely mounted transmitter with MVD Technology A 4-wire stainless steel integral core processor for remotely mounted transmitter with MVD Technology V 4-wire polyurethane-painted aluminum integral core processor with extended mount for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W ⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect [™] installations D ⁽¹⁾ Stainless steel integral core processor for MVD Direct Connect [™] installations Y ⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations E ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations I ⁽²⁾ Integrally mounted IFT9701 transmitter R 9-wire polyurethane-painted aluminum junction box	Code	Case options
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 A 4-wire stainless steel integral core processor for remotely mounted transmitter with MVD Technology V 4-wire polyurethane-painted aluminum integral core processor with extended mount for remotely mounted transmitter with MVD Technology B 4-wire stainless steel integral core processor with extended mount for remotely mounted transmitter with MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect[™] installations D⁽¹⁾ Stainless steel integral core processor for MVD Direct Connect installations Y⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations Y⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations E⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations Integrally mounted IFT9701 transmitter R 9-wire polyurethane-painted aluminum junction box with extended mount 	Code	Electronics interface
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MVD Technology C Integrally mounted Model 1700 or 2700 transmitter W ⁽¹⁾ Polyurethane-painted aluminum integral core processor for MVD Direct Connect [™] installations D ⁽¹⁾ Stainless steel integral core processor for MVD Direct Connect installations Y ⁽¹⁾ Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations E ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations I ⁽²⁾ Integrally mounted IFT9701 transmitter R 9-wire polyurethane-painted aluminum junction box H 9-wire polyurethane-painted aluminum junction box with extended mount	V	
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E ⁽¹⁾ Stainless steel integral core processor with extended mount for MVD Direct Connect installations I ⁽²⁾ Integrally mounted IFT9701 transmitter R 9-wire polyurethane-painted aluminum junction box H 9-wire polyurethane-painted aluminum junction box with extended mount	D ⁽¹⁾	
 Integrally mounted IFT9701 transmitter 9-wire polyurethane-painted aluminum junction box 9-wire polyurethane-painted aluminum junction box with extended mount 	Y ⁽¹⁾	Polyurethane-painted aluminum integral core processor with extended mount for MVD Direct Connect installations
R 9-wire polyurethane-painted aluminum junction box H 9-wire polyurethane-painted aluminum junction box with extended mount	E ⁽¹⁾	Stainless steel integral core processor with extended mount for MVD Direct Connect installations
H 9-wire polyurethane-painted aluminum junction box with extended mount	I ⁽²⁾	Integrally mounted IFT9701 transmitter
	R	9-wire polyurethane-painted aluminum junction box
Continued on next page	н	9-wire polyurethane-painted aluminum junction box with extended mount
	Continued	l on next page

(1) When electronics interface W, D, Y, or E is ordered with approval codes C, A, or Z, an MVD Direct Connect I.S. barrier is supplied. No barrier is supplied when ordered with approval codes M or N.

(2) Not available with Model H300.

Ordering information continued

Code	Conduit connections
	Electronics interface codes Q, A, V, B, W, D, Y, and E
В	1/2-inch NPT — no gland
Е	M20 — no gland
F	Brass/nickel cable gland (cable diameter 0.335 to 0.394 inches [8.5 to 10 mm])
G	Stainless steel cable gland (cable diameter 0.335 to 0.394 inches [8.5 to 10 mm])
	Electronics interface codes C and I (integral transmitter)
А	No gland
	Electronics interface codes R and H (9-wire junction box)
A	3/4-inch NPT — no gland
н	Brass/nickel cable gland
J	Stainless steel cable gland
Code	Approvals
M ⁽¹⁾	Micro Motion standard (no approval)
N ⁽¹⁾	Micro Motion standard / PED compliant
C ⁽¹⁾	CSA (Canada only)
A ⁽¹⁾	CSA (U.S.A. and Canada)
Z ⁽¹⁾	ATEX — Equipment Category 2 (Zone 1) / PED compliant
Code	Language
А	Danish installation manual
С	Czech installation manual
D	Dutch installation manual
E	English installation manual
F	French installation manual
G	German installation manual
н	Finnish installation manual
I	Italian installation manual
J	Japanese installation manual
М	Chinese installation manual
Ν	Norwegian installation manual
0	Polish installation manual
Р	Portuguese installation manual
S	Spanish installation manual
W	Swedish installation manual
В	Hungarian CE requirements and English installation manual
К	Slovak CE requirements and English installation manual
Т	Estonian CE requirements and English installation manual
U	Greek CE requirements and English installation manual
L	Latvian CE requirements and English installation manual
V	Lithuanian CE requirements and English installation manual
Y	Slovene CE requirements and English installation manual
Continued	on next page

(1) When electronics interface W, D, Y, or E is ordered with approval codes C, A, or Z, an MVD Direct Connect I.S. barrier is supplied. No barrier is supplied when ordered with approval codes M or N.

Ordering information continued

Code	Future option 1
Z	Reserved for future use
Code	Calibration options
Z 1 ⁽¹⁾	0.15% flow and 0.002 g/cc density calibration 0.10% flow and 0.001 g/cc density calibration
Code	Future option 3
Z	Reserved for future use
Code	Factory options
Z	Standard product
Y	CEQ surface finish (future option)
Х	CEQ product
R	Restocked product (if available)
	Restocked product (if available) nodel number: H025S 121 N C A A E Z Z Z Z

(1) Not available with electronic interface code I, available only with MVD Technology.

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