

Product Data Sheet

PS-00388, Rev. H

August 2019

Micro Motion® Model D and DL Coriolis Flow and Density Meters

Micro Motion® Model D and DL sensors provide flow and density measurement for liquids, gases, and slurries — simply and directly.



Features and benefits

- Dual-tube design for ease of installation and use
- Fits a wide range of line sizes for high flow rate capacity
- Special models available for high-pressure fluid containment or to meet 3-A Sanitary Standards

Model D and DL feature comparison

Sensor model	Typical line size	Corrosion resistant materials	High pressure	High temperature	Purge fittings available	Rupture disk available	Sanitary Standards
<i>Standard sensors</i>							
DS150Z	1 to 2 inch (25 to 50 mm)	✓			✓	✓	
DS300 (all)	2 to 4 inch (50 to 100 mm)	✓			✓	✓	
<i>High pressure sensors</i>							
DH100S	1/2 to 1 inch (15 to 25 mm)		✓				
DH150S	1 to 1 1/2 inch (25 to 40 mm)		✓				
DH300S	1 1/2 to 3 inch (40 to 80 mm)		✓				
<i>Sanitary sensors</i>							
DL200S	2 inch (50 mm)				✓		✓

Contents

Liquid flow performance	3	Materials of construction	11
Gas flow performance	6	Weight	12
Density specifications (liquid only)	7	Dimensions	12
Temperature specifications	8	Fitting options	16
Pressure ratings	8	Ordering information	19
Environmental effects	9		
Hazardous area classifications	10		

Liquid flow performance

		Mass		Volume	
		lb/min	kg/h	gal/min	l/h
Nominal flow range⁽¹⁾					
Standard sensors	DS150Z	0 to 1400	0 to 38,136	0 to 168	0 to 38,136
	DS300 (all)	0 to 7000	0 to 190,680	0 to 839	0 to 190,680
High-pressure sensors	DH100S	0 to 400	0 to 10,896	0 to 48	0 to 10,896
	DH150S	0 to 1400	0 to 38,136	0 to 168	0 to 38,136
	DH300S	0 to 7000	0 to 190,680	0 to 839	0 to 190,680
Sanitary sensors	DL200S	0 to 2500	0 to 68,100	0 to 300	0 to 68,100
Maximum flow rate⁽²⁾⁽³⁾					
Standard sensors	DS150Z	2800	76,272	336	76,272
	DS300 (all)	7000	190,680	839	190,680
High-pressure sensors	DH100S	800	21,792	96	21,792
	DH150S	2800	76,272	336	76,272
	DH300S	7000	190,680	839	190,680
Sanitary sensors	DL200S	0 to 3500	95,340	420	95,340
Mass flow accuracy⁽⁴⁾					
	Transmitter with MVD Technology	±0.15% ⁽⁵⁾			
	All other transmitters	±0.15% ±[(zero stability / flow rate) × 100]% of rate			
Repeatability⁽⁴⁾					
	Transmitter with MVD Technology	±0.05% ⁽⁵⁾			
	All other transmitters	±0.05% ±[½(zero stability / flow rate) × 100]% of rate			
Zero stability		lb/min	kg/h	gal/min	l/h
Standard sensors	DS150Z	0.30	9.0	0.036	9.0
	DS300 (all)	0.70	19.2	0.084	19.2
High-pressure sensors	DH100S	0.30	9.0	0.036	9.0
	DH150S	1.2	32.6	0.144	32.6
	DH300S	4.0	108.0	0.480	108.0
Sanitary sensors	DL200S	0.35	9.5	0.042	9.5

(1) Micro Motion has adopted the terminology "nominal flow range." The upper limit of this range is the flow rate at which water at reference conditions causes approximately 15 psid (1 bar) of pressure drop.

(2) Maximum flow rate for volume measurement is based on a process-fluid density of 1 g/cm³. For fluids with density other than 1 g/cm³, the maximum volume flow rate equals the maximum mass flow rate divided by the fluid's density.

(3) Maximum flow rate calculated at a pressure drop of 29 psi (2 bar). Higher flow rates are possible with higher pressure drop.

(4) Flow accuracy includes the combined effects of repeatability, linearity, and hysteresis. All specifications for liquids 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), unless otherwise noted.

(5) When flow rate < zero stability / 0.0015, accuracy = ±[(zero stability / flow rate) × 100]% of rate and repeatability = ±[½(zero stability / flow rate) × 100]% of rate.

Liquid flow performance *continued*

Typical accuracy, turndown, and pressure drop

To determine accuracy, turndown, and pressure drop using your process variables, use Micro Motion's product selector at www.micromotion.com.

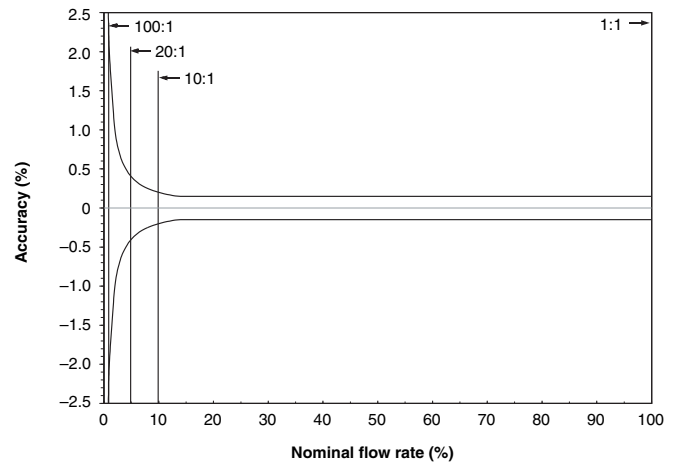
Standard sensors with transmitter with MVD Technology

Accuracy (\pm %)

<i>Turndown</i>	<i>100:1</i>	<i>20:1</i>	<i>10:1</i>	<i>1:1</i>
DS150Z	2.14	0.43	0.21	0.15
DS300 (all)	1.0	0.2	0.15	0.15

Pressure drop

<i>Turndown</i>	<i>100:1</i>	<i>20:1</i>	<i>10:1</i>	<i>1:1</i>	
DS150Z	psi	~0	0.1	0.2	15.8
	bar	~0	0.01	0.01	1.09
DS300 (all)	psi	~0	0.1	0.2	15.1
	bar	~0	0.01	0.01	1.04



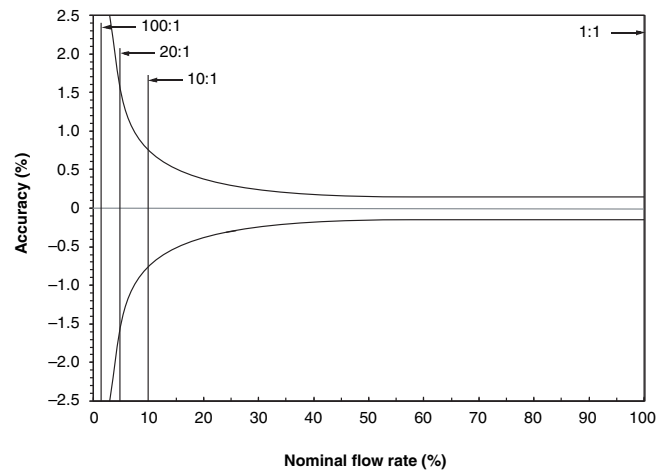
High-pressure sensors with transmitter with MVD Technology

Accuracy (\pm %)

<i>Turndown</i>	<i>100:1</i>	<i>20:1</i>	<i>10:1</i>	<i>1:1</i>
DH100S	7.5	1.5	0.75	0.15
DH150S	8.57	1.71	0.86	0.15
DH300S	5.71	1.14	0.57	0.15

Pressure drop

<i>Turndown</i>	<i>100:1</i>	<i>20:1</i>	<i>10:1</i>	<i>1:1</i>	
DH100S	psi	~0	0.1	0.2	12.4
	bar	~0	0.01	0.01	0.84
DH150S	psi	~0	0.1	0.2	15.0
	bar	~0	0.01	0.01	1.0
DH300S	psi	~0	0.1	0.3	21.0
	bar	~0	0.01	0.02	1.4



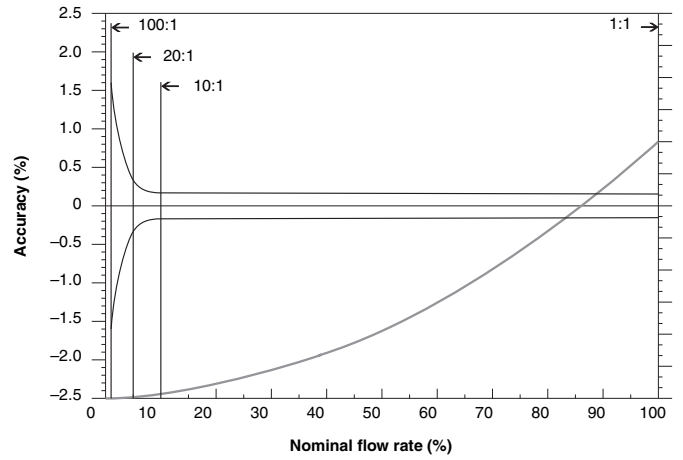
Liquid flow performance *continued*

Typical accuracy, turndown, and pressure drop

To determine accuracy, turndown, and pressure drop using your process variables, use Micro Motion's product selector at www.micromotion.com.

Sanitary sensors with transmitter with MVD Technology

Accuracy (\pm %)					
<i>Turndown</i>					
		<i>100:1</i>	<i>20:1</i>	<i>10:1</i>	<i>1:1</i>
DL200S		1.4	0.28	0.15	0.15
Pressure drop					
<i>Turndown</i>					
		<i>100:1</i>	<i>20:1</i>	<i>10:1</i>	<i>1:1</i>
DL200S	psi	~0	0.1	0.2	11.9
	bar	~0	0.01	0.01	0.82



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.

		lb/min	kg/h
Nominal flow range⁽¹⁾			
Standard sensors	DS150Z	0 to 1400	0 to 38,136
	DS300 (S, H, and Z)	—	—
High-pressure sensors	DH100S	0 to 400	0 to 10,896
	DH150S	0 to 1400	0 to 38,136
	DH300S	—	—
Sanitary sensors	DL200S	0 to 2500	0 to 68,100

Maximum flow rate			
Standard sensors	DS150Z	2800	76,272
	DS300 (S, H, and Z)	—	—
High-pressure sensors	DH100S	800	21,792
	DH150S	2800	76,272
	DH300S	—	—
Sanitary sensors	DL200S	3500	95,340

Accuracy⁽²⁾			
All models except DS300 and DH300S	Transmitter with MVD Technology	±0.65% ⁽³⁾	
	All other transmitters	±0.65% ±[(zero stability / flow rate) × 100]% of rate	

Repeatability⁽²⁾			
All models except DS300 and DH300S	Transmitter with MVD Technology	±0.30% ⁽³⁾	
	All other transmitters	±0.30% ±[(zero stability / flow rate) × 100]% of rate	

Zero stability		lb/min	kg/h
Standard sensors	DS150Z	0.30	9.0
	DS300 (S, H, and Z)	—	—
High-pressure sensors	DH100S	0.30	9.0
	DH150S	1.2	32.6
	DH300S	—	—
Sanitary sensors	DL200S	0.35	9.5

(1) Micro Motion has adopted the terminology "nominal flow range." The upper limit of this range is the flow rate at which water at reference conditions causes approximately 15 psid (1 bar) of pressure drop.

(2) Flow accuracy includes the combined effects of repeatability, linearity, and hysteresis. All specifications for liquids 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), unless otherwise noted.

(3) When flow rate < zero stability / 0.0065, accuracy = ±[(zero stability / flow rate) × 100]% of rate and repeatability = ±[½(zero stability / flow rate) × 100]% of rate.

Density specifications (liquid only)

		g/cm ³	kg/m ³
Accuracy			
Standard sensors	DS150Z ⁽¹⁾	±0.002	±2.0
	DS300S or DS300H	±0.0005	±0.5
	DS300Z ⁽¹⁾	±0.001	±1.0
High-pressure sensors	DH100S	±0.002	±2.0
	DH150S	±0.002	±2.0
	DH300S	±0.001	±1.0
Sanitary sensors	DL200S	±0.0005	±0.5
Repeatability			
Standard sensors	DS150Z	±0.001	±1.0
	DS300S or DS300H	±0.0002	±0.2
	DS300Z	±0.0005	±0.5
High-pressure sensors	DH100S	±0.001	±1.0
	DH150S	±0.001	±1.0
	DH300S	±0.0005	±0.5
Sanitary sensors	DL200S	±0.0002	±0.2
Range	All models	0 to 5	0 to 5000

(1) Flow tubes are 316L stainless steel with Tefzel lining.

Temperature specifications

Accuracy		±1 °C ± 0.5% of reading in °C	
Repeatability		±0.2 °C	
Process fluid limits		°F	°C
Standard sensors	DS150Z ⁽¹⁾	+32 to +250	0 to +121
	DS300S or DS300H	-400 to +400	-240 to +204
	DS300Z ⁽¹⁾	+32 to +250	0 to +121
	With remote booster amplifier ⁽²⁾	-400 to +400	-240 to +204
High-pressure sensors	DH100S, DH150S, DH300S	-400 to +400	-240 to +204
Sanitary sensors	DL200S	-400 to +400	-240 to +204
Ambient limits		°F	°C
UL	All models	+104 maximum	+40 maximum
CSA	All models	-40 to +140	-40 to +60
ATEX	All models	Refer to graphs on pages 10–11.	

(1) Flow tubes are 316L stainless steel with Tefzel lining. Maximum allowable rate of sensor temperature change for Tefzel meters is 30 °F/hr (17 °C/h).

(2) The remote booster amplifier has ambient temperature limits of -40 to +140 °F (-40 to +60 °C).

Pressure ratings

		psi	bar
Flow tube rating⁽¹⁾	DS150Z ⁽²⁾	1000	69
	DS300S or DS300H	740	51
	DS300Z ⁽²⁾	740	51
	DH100S	4937	340
	DH150S	4790	330
	DH300S	3110	214
	DL200S	740	51

PED compliance Sensors comply to council directive 97/23/EC of 29 May 1997 on Pressure Equipment.

Housing All models Housing is not rated for pressure containment.

(1) Flow tube pressure rating at 77 °F (25 °C), according to ASME B31.3. For higher operating temperatures, tube pressure needs to be derated as follows:

Stainless steel sensors	Up to 300 °F (up to 148 °C)	None
	At 400 °F (204 °C)	7.2% derating
Nickel alloy sensors	Up to 200 °F (up to 93 °C)	None
	At 400 °F (204 °C)	9.2% derating

(2) Flow tubes are 316L stainless steel with Tefzel lining.

Environmental effects

Process temperature effect Process temperature effect is defined as the worst-case zero offset due to process fluid temperature change away from the zeroing temperature.

			% of nominal flow rate per °C ⁽¹⁾
Standard sensors	DS150Z ⁽²⁾		±0.002
	DS300S or DS300H, DS300Z ⁽¹⁾		±0.004
High-pressure sensors	DH100S, DH150S, DH300S		±0.01
Sanitary sensors	DL200S		±0.004

Pressure effect Pressure effect is defined as the change in sensor flow and density sensitivity due to process pressure change away from the calibration pressure. Pressure effect can be corrected. Only the sensors listed below are affected.

Pressure effect on flow accuracy			

		% of rate per psi	% of rate per bar
	DS300S or DS300H	-0.009	-0.131
	DS300Z ⁽¹⁾	-0.009	-0.131
	DL200S	-0.009	-0.131
Pressure effect on density accuracy			

		g/cm ³ per psi	kg/m ³ per bar
	DS300S or DS300H	-0.00001	-0.145
	DS300Z ⁽²⁾	-0.00001	-0.145
	DL200S	-0.000001	-0.015

(1) Nominal flow rate is the upper limit of the nominal flow range.

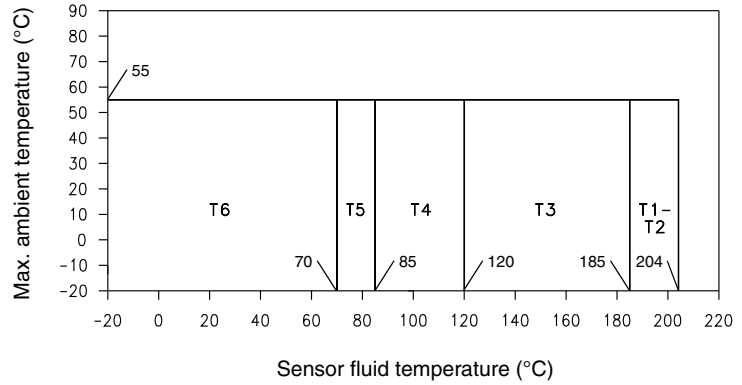
(2) Flow tubes are 316L stainless steel with Tefzel lining.

Hazardous area classifications

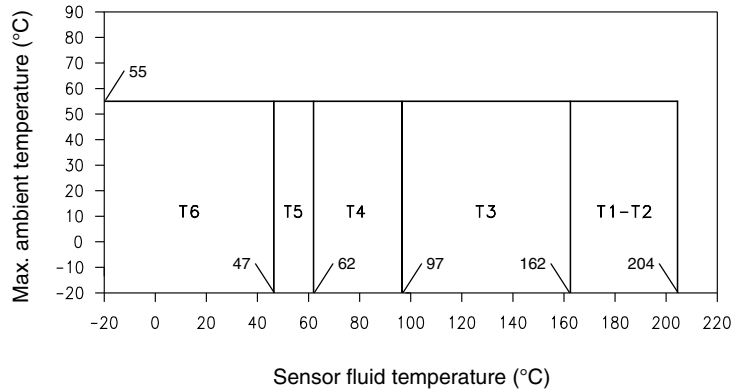
UL D sensors, DH sensors, and DL200S sensors Class I, Div. 1, Groups C and D
 Class I, Div. 2, Groups A, B, C, and D
 Class II, Div. 1, Groups E, F, and G

CSA D sensors, DH sensors, and DL200S sensors 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⁾
DS150Z
DH100, DH150
 II 2 G EEx ib IIB T1-T6
 II 2 D IP65 T °C



DS300 (all)
DH300
 II 2 G EEx ib IIB T1-T6
 II 2 D IP65 T °C



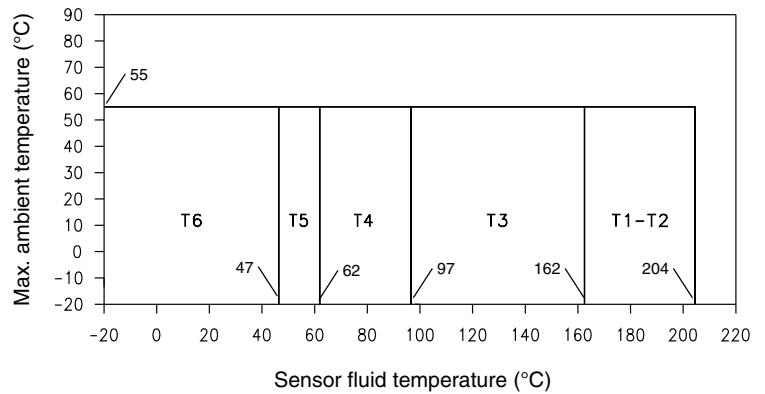
(1) ATEX "T" rating depends on the maximum temperature shown in the graphs above.

Hazardous area classifications *continued*

ATEX⁽¹⁾

DL200S

EEx ib IIB T1–T6



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

Materials of construction

Sensors are available with the materials shown in the table below. For specific sensor material options, refer to the ordering information on pages 16–18. For wetted parts, material codes are:

- SS 316L stainless steel flow tubes and flanges, CF-3M SS manifolds
- Ni Hastelloy® C-22 nickel alloy flow tubes and glands with Hastelloy CW-2M nickel alloy manifolds
- Lined 316L stainless steel flow tubes with Tefzel lining, CF-3M SS manifolds

Wetted parts ⁽¹⁾		SS	Ni	Lined
Standard sensors	DS150Z			◆
	DS300 (all)	◆	◆	◆
High-pressure sensors	DH100S	◆		
	DH150S	◆		
	DH300S	◆		
Sanitary sensors	DL200S	◆		
Housing	304 stainless steel			
Core processor	Polyurethane-painted aluminum or 316L stainless steel; NEMA 4X (IP 65)			
Junction box	Polyurethane-coated aluminum; NEMA 4X (IP 65)			
Booster amplifier	Polyurethane-coated aluminum; 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 Micro Motion’s corrosion guide for material compatibility information.

Weight

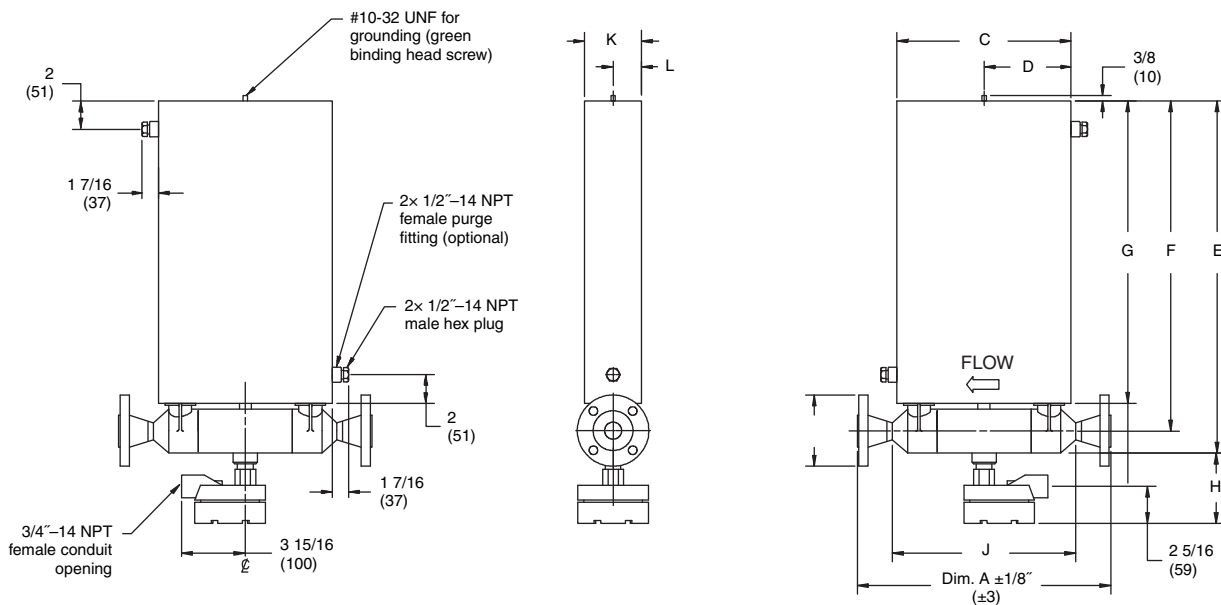
Approximate weight of sensors with noted process fittings.

		Process connection	lb	kg
Standard sensors	DS150Z	1 1/2" ANSI CL150 WNRF flanges	46	20.9
	DS300 (all)	3" ANSI CL150 WNRF flanges	113	60.4
High-pressure sensors	DH100S	1 1/2" high-pressure, clamp-type flanges	80	36.4
	DH150S	1 1/2" high-pressure, clamp-type flanges	80	36.4
	DH300S	4" high-pressure, clamp-type flanges	218	99.1
Sanitary sensors	DL200S	Sanitary fittings	90	41
		150 lb lap joint	100	45
		300 lb lap joint	104	47

Dimensions

Models DS150Z and DH150S

Dimensions in inches
(mm)



Dimensions⁽¹⁾

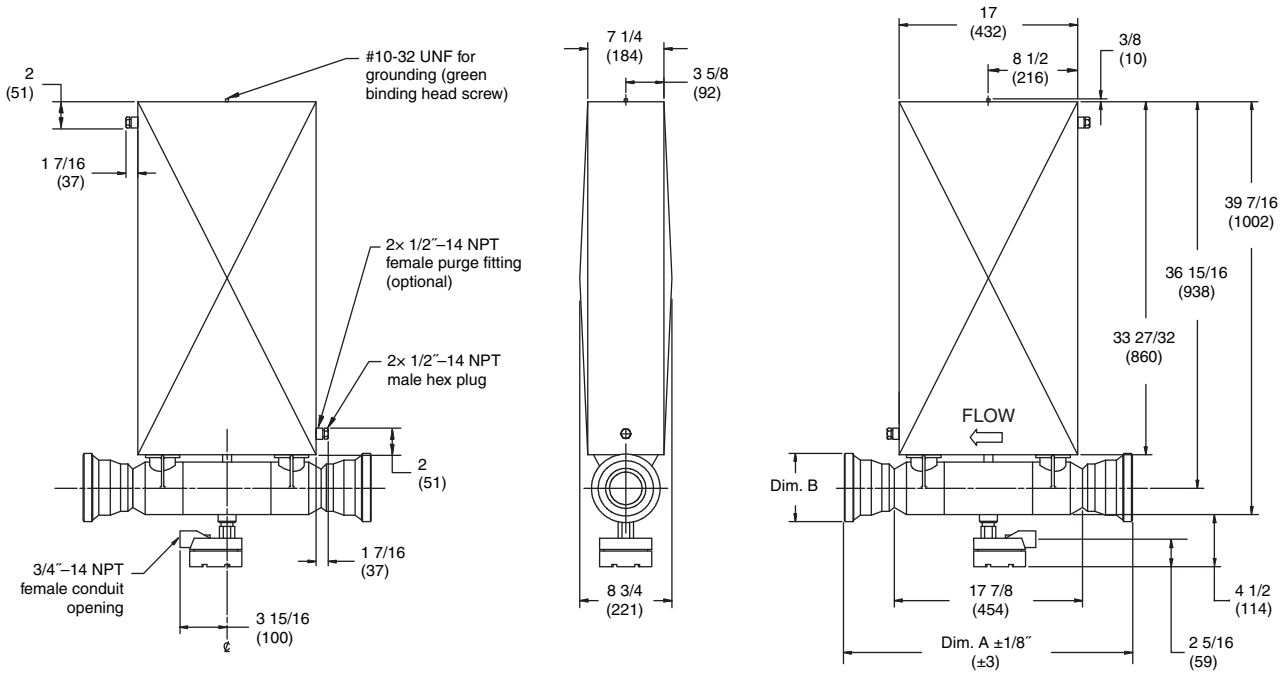
		C	D	E	F	G	H	J	K	L
DS150Z	inches	12 1/4	6 1/8	24 3/4	23 5/16	21 9/32	4	12 7/8	4	2
	(mm)	(311)	(156)	(629)	(592)	(541)	(102)	(327)	(102)	(51)
DH100	inches	12 1/4	6 1/8	24 27/32	23 13/32	21 3/8	4	12 7/8	4	2
	(mm)	(311)	(156)	(631)	(595)	(543)	(102)	(327)	(102)	(51)
DH150	inches	12 3/4	6 3/8	28 11/32	26 29/32	24 29/32	4	12 7/8	4 1/2	2 1/4
	(mm)	(324)	(162)	(720)	(683)	(633)	(102)	(327)	(114)	(57)

(1) For dimensions A and B, see the process fitting options on pages 16–18.

Dimensions *continued*

Model DS300

Dimensions in *inches*
(*mm*)

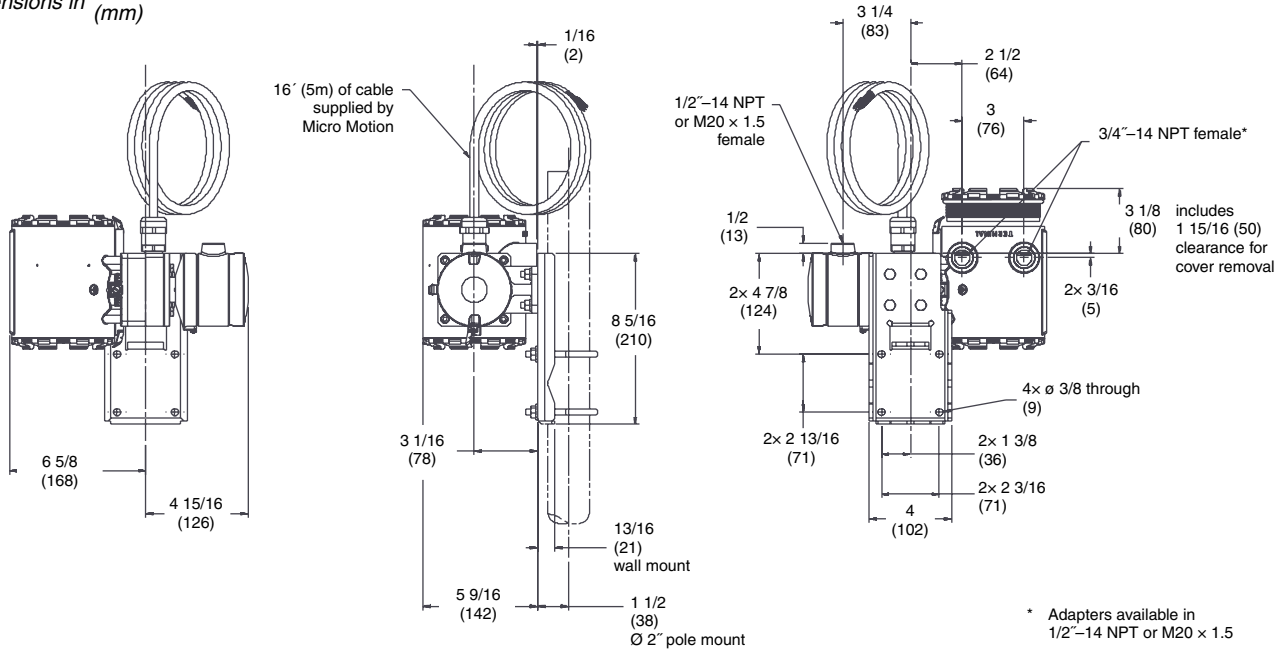


For dimensions A and B, see process fitting options on pages 16–18.

Dimensions *continued*

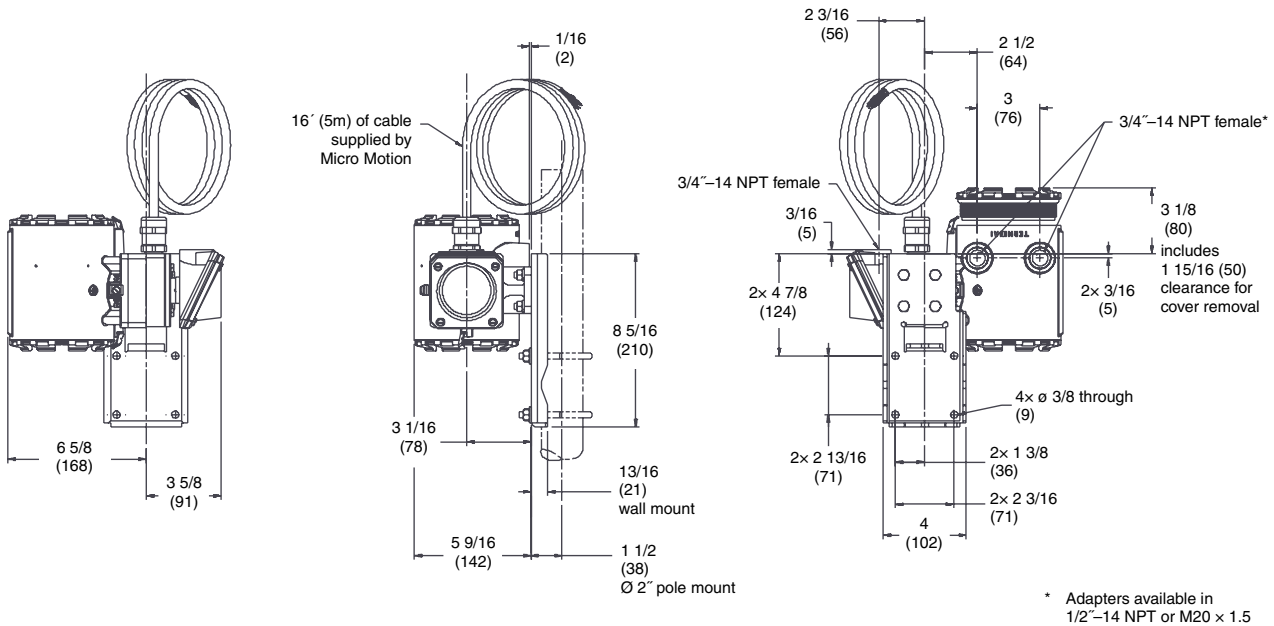
Remote booster amplifier with core processor

Dimensions in inches (mm)



Remote booster amplifier with junction box

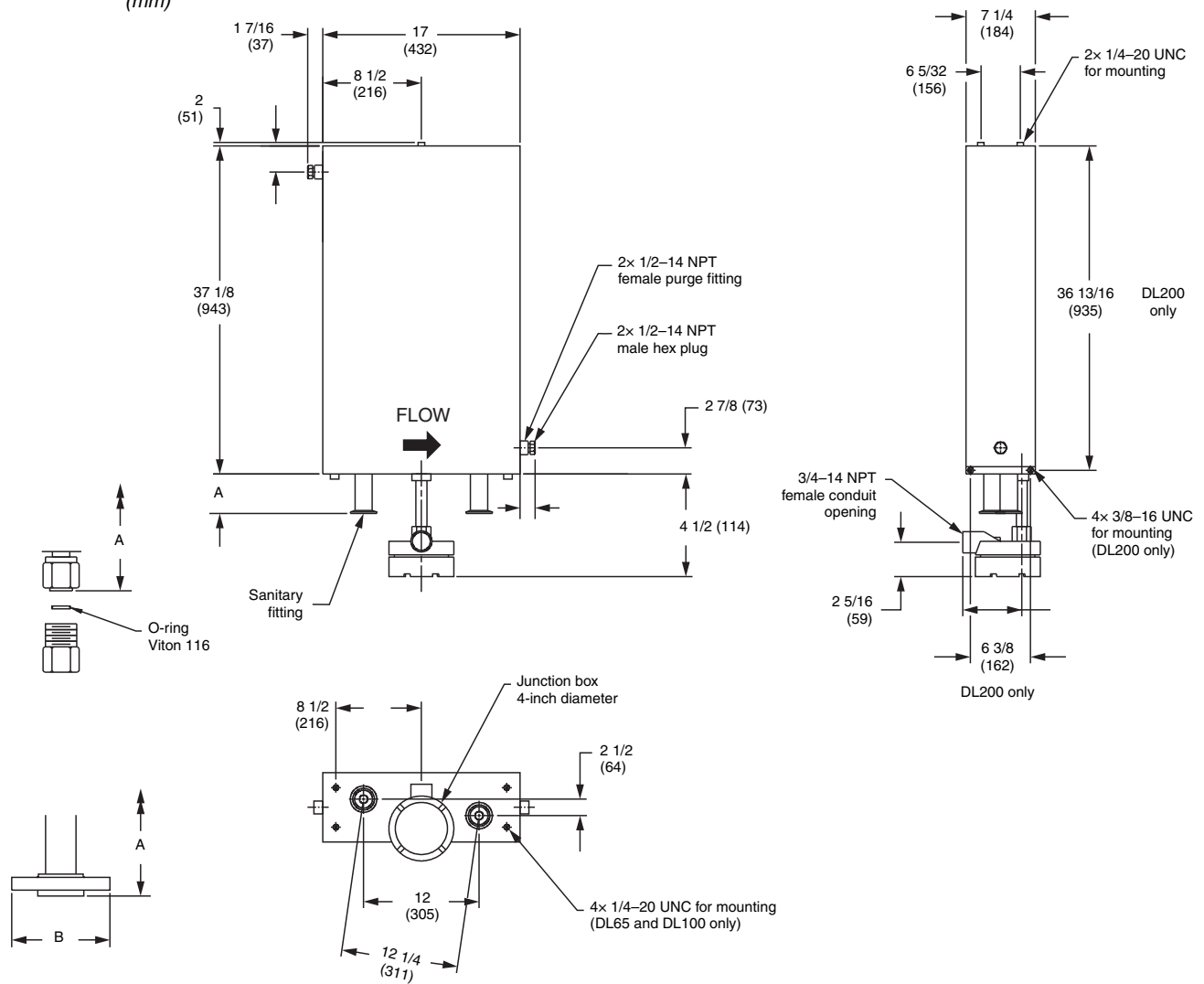
Dimensions in inches (mm)



Dimensions *continued*

Model DL200S

Dimensions in inches
(mm)



Variable dimensions and process fittings are provided on pages 16–18.

Fitting options

	Fitting code ⁽¹⁾	Dim. A face-to-face inches (mm)	Dim. B outside diameter inches (mm)
DH100S fitting options			
1 1/2-inch high-pressure clamp-type flange; size 11 seal ring ⁽²⁾	140	17 1/2 (445)	3 1/8 (79)
1-inch ANSI CL900/1500 weld neck raised face flange	925	19 1/16 (484)	5 7/8 (149)
1-inch ANSI CL2500 weld neck raised face flange	927	20 9/32 (515)	6 1/4 (159)
DN25 PN250 weld face flange; DIN 2628 type E face	922	17 29/32 (455)	5 29/32 (150)
DN25 PN320 weld face flange; DIN 2629 type E face	923	18 15/16 (481)	6 15/16 (160)
DN25 PN400 weld face flange; DIN 2627 type E face	924	19 7/8 (505)	7 1/16 (179)
DH150S fitting options			
1 1/2-inch high-pressure clamp-type flange; size 14 seal ring ⁽³⁾	154	17 1/2 (445)	3 1/8 (79)
1 1/2-inch ANSI CL900/1500 weld neck raised face flange	936	19 25/32 (502)	7 (178)
1 1/2-inch ANSI CL2500 weld neck raised face flange	938	22 1/32 (560)	8 (203)
DN40 PN160 weld neck flange; DIN 2638 type E face	932	17 13/16 (452)	6 11/16 (170)
DN40 PN250 weld neck raised face flange; DIN 2628 type E face	933	19 1/16 (484)	7 9/32 (185)
DN40 PN320 weld neck raised face flange; DIN 2629 type E face	934	19 23/32 (501)	7 11/16 (195)
DN40 PN400 weld neck raised face flange; DIN 2627 type E face	935	21 7/16 (545)	8 21/32 (220)
DS150Z Tefzel fitting options			
1 1/2-inch ANSI CL150 weld neck raised face flange	141	17 5/8 (448)	5 (127)
1 1/2-inch ANSI CL300 weld neck raised face flange	142	18 1/8 (460)	6 1/8 (156)
1 1/2-inch ANSI CL600 weld neck raised face flange	143	18 3/4 (476)	6 1/8 (156)
2-inch ANSI CL150 weld neck raised face flange	218	17 25/32 (452)	6 (152)
DN40 PN40 weld neck flange; DIN 2635 type C face	144	16 5/16 (414)	5 29/32 (150)

(1) Fittings listed here are standard options. Other types of fittings are available. The face to face dimensions for any custom fittings ordered using a 998 or 999 fitting code are not represented in this table. It is necessary to confirm face to face dimensions of these fittings at time of ordering. Contact your local Micro Motion representative.

(2) Oteco hub size: 1½ OC11. Mating connectors (not included): Grayloc hub size 1½ GR11, seal ring size 11; clamp size 1½, stainless steel.

(3) Oteco hub size: 1½ OC14. Mating connectors (not included): Grayloc hub size 1½ GR14, seal ring size 14; clamp size 1½, stainless steel.

Fitting options *continued*

	Fitting code ⁽¹⁾	Dim. A face-to-face inches (mm)	Dim. B outside diameter inches (mm)
DS300S stainless steel fitting options			
3-inch ANSI CL150 weld neck raised face flange	155	23 1/4 (591)	7 1/2 (191)
3-inch ANSI CL300 weld neck raised face flange	156	24 (610)	8 1/4 (210)
3-inch ANSI CL600 weld neck raised face flange	157	24 3/4 (629)	8 1/4 (210)
3-inch sanitary fitting (Tri-Clamp compatible)	161	21 3/8 (543)	3 19/32 (91)
DN80 PN40 weld neck flange; DIN 2635 type C face	158	22 5/16 (567)	7 7/8 (200)
DN80 PN64 weld neck flange; DIN 2636 type E face	941	23 17/32 (598)	8 15/32 (215)
JIS 80mm 10K weld neck raised face flange	159	21 11/16 (551)	7 9/32 (185)
JIS 80 mm 20K weld neck raised face flange	160	22 5/16 (567)	7 7/8 (200)
DS300Z Tefzel fitting options			
3-inch ANSI CL150 weld neck raised face flange	155	23 1/2 (596)	7 1/2 (191)
3-inch ANSI CL300 weld neck raised face flange	156	24 (610)	8 1/4 (210)
DN80 PN40 weld neck flange; DIN 2635 type C face	158	22 5/16 (567)	7 7/8 (200)
DS300H Hastelloy fitting options			
3-inch ANSI CL150 lap joint flange	203	25 5/8 (651)	7 1/2 (191)
3-inch ANSI CL300 lap joint flange	204	25 5/8 (651)	8 1/4 (210)
3-inch ANSI CL600 lap joint flange	949	25 5/8 (651)	8 1/4(210)
DN80 PN40 lap joint flange; DIN 2656 type C face	211	25 5/8 (651)	7 7/8 (200)
JIS 80 mm 10K lap joint flange	210	25 5/8 (651)	7 9/32 (185)
DH300S fitting options			
4-inch high-pressure clamp-type flange; size 27 seal ring ⁽²⁾	164	25 1/16 (637)	6 (151)
3-inch ANSI CL300 weld neck raised face flange	156	24 (610)	8 1/4 (210)
3-inch ANSI CL600 weld neck raised face flange	157	24 3/4 (629)	8 1/4 (210)
3-inch ANSI CL900 weld neck raised face flange	246	26 5/16 (668)	9 1/2 (241)
3-inch ANSI CL1500 weld neck raised face flange	946	27 5/8 (702)	10 1/2 (267)
3-inch ANSI CL2500 weld neck raised face flange	947	31 5/8 (803)	12 (305)
DN80 PN100 weld neck flange; DIN 2637 type E face	942	24 1/32 (610)	9 1/16 (230)
DN80 PN160 weld neck flange; DIN 2638 type E face	943	24 21/32 (626)	9 1/16 (230)
DN80 PN250 weld neck raised face flange; DIN 2628 type E face	944	25 29/32 (658)	10 1/32 (255)

(1) Fittings listed here are standard options. Other types of fittings are available. The face to face dimensions for any custom fittings ordered using a 998 or 999 fitting code are not represented in this table. It is necessary to confirm face to face dimensions of these fittings at time of ordering. Contact your local Micro Motion representative.

(2) Oteco hub size: 4 OC27. Mating connectors (not included): Grayloc hub size 4 GR27, seal ring size 27; clamp size 4, stainless steel.

Fitting options *continued*

	Fitting code ⁽¹⁾	Dim. A face-to-face inches (mm)	Dim. B outside diameter inches (mm)
DL200S fitting options			
2-inch sanitary fitting (Tri-clamp compatible)	226	2 7/8 (73)	2 1/2 (64)
2-inch 150 lb lap joint flange	227	2 7/8 (73)	6 (152)
2-inch 300 lb lap joint flange	228	2 7/8 (73)	6 1/2 (165)
DN50 DIN 11851 aseptic coupling	954	2 7/8 (73)	3 1/16 (78)
DN50 PN40 lap joint flange; DIN 2656 type C face	955	2 7/8 (73)	6 1/2 (165)

(1) *Fittings listed here are standard options. Other types of fittings are available. The face to face dimensions for any custom fittings ordered using a 998 or 999 fitting code are not represented in this table. It is necessary to confirm face to face dimensions of these fittings at time of ordering. Contact your local Micro Motion representative.*

Ordering information — all models

Model	Product description
Standard sensors	
DS150Z	Micro Motion Coriolis D-Series sensor; 1 1/2-inch (38 mm); standard pressure; Tefzel lining
DS300S	Micro Motion Coriolis D-Series sensor; 3-inch (75 mm); standard pressure; 316L stainless steel
DS300H	Micro Motion Coriolis D-Series sensor; 3-inch (75 mm); standard pressure; Hastelloy C-22
DS300Z	Micro Motion Coriolis D-Series sensor; 3-inch (75 mm); standard pressure; Tefzel lining
High-pressure sensors	
DH100S	Micro Motion Coriolis D-Series sensor; 1-inch (25 mm); high pressure; 316L stainless steel
DH150S	Micro Motion Coriolis D-Series sensor; 1 1/2-inch (38 mm); high pressure; 316L stainless steel
DH300S	Micro Motion Coriolis D-Series sensor; 3-inch (75 mm); high pressure; 316L stainless steel
Sanitary sensors	
DL200S	Micro Motion Coriolis DL-Series sensor; 2-inch; 316L stainless steel
Code	Process connections
###	See fitting options on pages 16–18.
Code	Case options
Models DS150Z, DS300Z, DL200S	
S	Standard case
P	Purge fitting (two 1/2-inch NPT female)
Models DH100S, DH150S, and DH300S	
S	Standard case
Models DS300S and DS300H	
S	Standard case
P	Purge fitting (two 1/2-inch NPT female)
D	Metal rupture disk
R	Purge fittings and rupture disk
Code	Approvals
M	Micro Motion Standard (no approval)
N	Micro Motion Standard / PED compliant
U	UL
C	CSA
B	ATEX / PED compliant
P ⁽¹⁾	NEPSI
S	SAA
Typical model number: DH150S 154 S U	

(1) Available only with language code M (Chinese).

Micro Motion—The undisputed leader in flow and density measurement



World-leading Micro Motion measurement solutions from Emerson Process Management deliver what you need most:

Technology leadership

Micro Motion introduced the first reliable Coriolis meter in 1977. Since that time, our ongoing product development has enabled us to provide the highest performing measurement devices available.

Product breadth

From compact, drainable process control to high flow rate fiscal transfer—look no further than Micro Motion for the widest range of measurement solutions.

Unparalleled value

Benefit from expert phone, field, and application service and support made possible by more than 750,000 meters installed worldwide and over 30 years of flow and density measurement experience.

 www.micromotion.com

© 2019 Micro Motion, Inc. All rights reserved.

The Emerson logo is a trademark and service mark of Emerson Electric Co. Micro Motion, ELITE, ProLink, MVD and MVD Direct Connect are marks of one of the Emerson Process Management family of companies. All other trademarks are property of their respective owners.

Micro Motion supplies this publication for informational purposes only. While every effort has been made to ensure accuracy, this publication is not intended to make performance claims or process recommendations. Micro Motion does not warrant, guarantee, or assume any legal liability for the accuracy, completeness, timeliness, reliability, or usefulness of any information, product, or process described herein. We reserve the right to modify or improve the designs or specifications of our products at any time without notice. For actual product information and recommendations, please contact your local Micro Motion representative.

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
Abu Dhabi T: +971 2 697 2000
France T: 0800 917 901
Germany T: 0800 182 5347
Italy T: 8008 77334
The Netherlands T: +31 318 495 555
Belgium T: +32 2 716 77 11
Spain T: +34 913 586 000
U.K. T: 0870 240 1978
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
South Korea T: (82) 2 3438 4600
Singapore T: (65) 6 777 8211

For a complete list of contact information and web sites, please visit: www.emersonprocess.com/home/contacts/global

MICRO MOTION


EMERSON