Micro Motion® System Control Diagram

CSA, IECEX & ATEX Installation Instructions

MICRO MOTION™

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Rev	ECN	Description	Approval	Date
AD		Reformatted and added index		6/1/23
AD01		Added editable tables		6/14/23
AD02		Added IECEx, ATEX, UKEx Classifications		6/16/23
AD03		Remove duplicate sensor tables		6/21/23
AD04		Add Transmitter Output Parameters		6/22/23
AD05		ATEX/IECEx/UKCA installation instructions and HPC020		6/26/23
AD06		Remove ATEX/IECEx Cert Matrix, Add Transmitter Warnings, Add MAX Transmitter Output Parameters for Class/Div,		6/30/2023
AD07		Revised date, relocated 3700 and noted 'not Div 1', reorganized Transmitters by model, corrected color banding in tables		7/20/2023
AD08		Removed Div 1 from FMT, 1600, 2400 Div 2 Transmitters, Corrected Maximum Transmitter Output Parameters		8/9/2023
AD09		Updated Mounting Codes for 4200/4700 and 1600 Transmitters to include mounting codes for field replacements		8/21/2023
AD10		Added Condition of Use for EPL Ga Inside Flow Tubes		8/23/2023
AD11		Added Conditions of Use for Remote Mounting Core Processor and Transmitters, Updated Index		9/7/2023
AD	1251621	Release Document	EGP	9/8/2023
AE	1410222	Add CMFS, CMF, HPL Sensors, and Conditions of Acceptability. Revised Electrical Parameters per CSA. Added Option "IC" to G series with integrally mounted 1700 in Div 1.	MES	12/12/2024
AF	1473048	Add new Condition of Acceptability for J-Box on pg4.	MES	06/24/2025
AG	1526714	Remove List of Zone Parameters, superscript notes with no reference, HPC010 line size and UKEx callouts. Adding in HPC025. General document clean-up & formatting fixes.	MES	11/11/2025
AH	1572376	Remove 1600 remote options as possible to Z1 sensors	IJS	4/3/2026
AI	1579012	Remove 1600 from IS parameters tables	IJS	4/21/2026
AJ	1602921	Add Sensor Conditions of Acceptability for HPL Series Sensors	DAM	6/26/2026

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Transmitter: 1700, 2700, 2200S, 4200, 4700, 5700
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ATEX/IECEx Zone 1 or Zone 2 (CSA Class I Div 1, or Class I Div 2)
Transmitter: 1700, 2700, 3700, 4700, 5700
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Transmitter: 1500, 2500, 3500, 4700, 5700

Remote Transmitter, Remote Core Processor **13**
ATEX/IECEx Zone 1 or Zone 2 (CSA Class I Div 1, or Class I Div 2)
Transmitter: 1700, 2700, 3700
ATEX/IECEx Zone 2 (CSA Class I Div 2 Only)
Transmitter: 1500, 2500, 3500

**Sensors for all transmitters:
F025-F400, H025-H400, R025-R400, CNG050, HPC015,020,025, T025-T150, G025-G300, CMFS025-150, CMFS007-015, CMF010-400, CMFHC2-4, HPL200-400, HPLHC2-3.

Notes

1. Installation Requirements
   a. North American installations must be in accordance with: National Electrical Code®, (NFPA 70 Article 504) or Canadian Electrical Code (C22.1, Part 18, and Annex J18), and ANSI/ISA-RP12.06.01 and any specific local requirements per your local authority having jurisdiction.
   b. European and United Kingdom installations must be in accordance with: EN 60079-14 and any specific local requirements per your local authority having jurisdiction.
   c. IECEx and IECEx based installations must be in accordance with: IEC 60079-14 and any specific local requirements per your local authority having jurisdiction.
2. All installations described herein are for Certified Micro Motion Transmitters connected to Certified Micro Motion Sensors. Certified Sensor and transmitter combinations are listed under CSA Report 80201871.
3. Ratings:
   - Pollution degree 2;
   - Overvoltage category II;
   - Altitude: ≤ 2000m (6562 feet) – general rating, some products may be rated higher
   - Humidity: 5 to 95% relative humidity non-condensing between -65°C to +80°C (-85°F to +176°F)
   - Ambient Temperature Range: -65°C to +80°C (-85°F to +176°F)
   - Enclosure Type 4X (and or IP XX as applicable)
   - Suitable for use indoors or outdoors within the limits and ratings described herein
   - Supply voltage fluctuations are not to exceed 10% of the nominal supply voltage
   - Use of this equipment in a manner not specified by the manufacturer may impair the protection provided
4. *The total C_i is equal to the sum of all C_i's of all devices on the network. C_{cable} is the total capacitance of all cable on the network.
   *The total L_i is equal to the sum of all L_i's of all devices on the network. L_{cable} is the total inductance of all cable on the network.
5. If the electrical parameters of the cable are unknown, then following values may be used:
   Cable Capacitance= 200pF/m, Cable Inductance= 1 µH/m
6. This device must not be connected to any associated apparatus which uses or generates more than 250Vrms with respect to earth ground.
7. EPL Ga (Zone 0) is permitted in sensor flow tubes. The sensors may be employed only for those media, for which the wetted parts are known to be suitable.
8. Core Processor shall be remotely mounted from Sensor with Process Temperatures < -40°C or with Process Temperatures > +60°C.
9. Transmitters shall be remotely mounted from Sensor with Process Temperature < marked Transmitter Minimum Ambient or with Process Temperatures > marked Transmitter Maximum Ambient.
10. The surface temperature of a J-Box (Junction-Box) enclosure, when installed, shall not exceed the listed ambient temperature for the junction box.
11. The Degree of Protection (IP) on the external side of the sensor Feedthrough shall be maintained during installation.

Transmitter & Sensor Warning Markings

1. (1700/2700, 5700, FMT) CAUTION: OPEN CIRCUIT BEFORE REMOVING COVER

   ATTENTION: OUVRIR LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE

   or,

   CAUTION: KEEP COVERS TIGHT WHILE CIRCUITS ARE ALIVE

   ATTENTION: GARDER LE COUVERCLE BIEN FERME TANT QUE LES CIRCUITS SONT SOUS TENSION

2. (1700/2700, 5700, 4200/4700, 9739MVD, 1500/2500, 3700, 3500, as paired with Coriolis Sensors) WARNING - SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.

   AVERTISSEMENT : LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SECURITE INTRINSEQUE.

3. (3700, 3500) WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2

   AVERTISSEMENT : AVERTISSEMENT - RISQUE D'EXPLOSION - LA SUBSTITUTION DE COMPOSANTS PEUT RENDRE CE MATERIEL INACCEPTABLE POUR LES EMPLACEMENTS DE CLASSE I, DIVISION 2.

4. (4200/4700, 1500/2500) WARNING – EXPLOSION HAZARD DO NOT DISCONNECT WHILE THE CIRCUIT IS LIVE OR UNLESS THE AREA IS FREE OF IGNITIBLE CONCENTRATIONS

   AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS DÉBRANCHER PENDANT QUE LE CIRCUIT EST SOUS TENSION OU À MOINS QUE L'EMPLACEMENT NE SOIT EXEMPT DE CONCENTRATIONS INFLAMMABLES.

5. (3700, 3500) WARNING – EXPLOSION HAZARD - DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR AREA IS KNOWN TO BE NON-HAZARDOUS

   AVERTISSEMENT – RISQUE D'EXPLOSION – NE DÉBRANCHEZ PAS L'ÉQUIPEMENT À MOINS QUE L'ALIMENTATION ÉLECTRIQUE N'AIT ÉTÉ COUPÉE OU QUE L'ON SACHE QUE LA ZONE N'EST PAS DANGEREUSE.

6. (5700, 2400, HPC) WARNING – EXPLOSION HAZARD. DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED

   AVERTISSEMENT – RISQUE D'EXPLOSION. NE PAS BRANCHER NI DÉBRANCHER SOUS TENSION

7. (5700. 4200/4700) WARNING - A SEAL SHALL BE INSTALLED WITHIN 50mm OF THE ENCLOSURE WHEN INSTALLED IN DIVISION 1

   ATTENTION - UN SCELLEMENT DOIT ÊTRE INSTALLÉ À MOINS DE 50 mm DU BOÎTIER LORSQU'IL EST INSTALLÉ DANS LA DIVISION 1

8. (1700/2700) WARNING - TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, CONDUIT RUNS MUST HAVE A SEALING FITTING CONNECTED WITHIN 18 INCHES OF THE ENCLOSURE.

   AVERTISSEMENT - POUR RÉDUIRE LE RISQUE D'INFLAMMATION D'ATMOSPHÈRES DANGEREUSES, LES CONDUITS DE CONDUIT DOIVENT AVOIR UN RACCORD D'ÉTANCHÉITÉ CONNECTÉ À MOINS DE 18 POUCES DE L'ENCEINTE.

9. (1600) WARNING - DO NOT OPEN OR DISCONNECT WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

   ATTENTION – NE PAS OUVRIR NI DÉBRANCHER EN PRÉSENCE D'UNE ATMOSPHÈRE EXPLOSIVE

10. (1600) WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

    AVERTISSEMENT - RISQUE DE CHARGE ÉLECTROSTATIQUE POTENTIEL - VOIR LES INSTRUCTIONS

Transmitter Output Parameters

Transmitter 1700, 2700, 1500, 2500, 3500, 3700, 4700 with 700 processor:				***Transmitter 1700, 2700, 1500, 2500, 3500, 3700, 4700 with 800 processor:***			
Circuit:	Drive	Pick-Off	RTD	Circuit:	Drive	Pick-Off	RTD
Uo	10.5V	17.22V	17.22V	Uo	10.5V	17.22V	17.22V
Io	2.4A	6.9mA	26.17mA	Io	2.4A	25mA	21.07mA
Po	1.91W	29.69mW	112.69mW	Po	1.91W	41.4mW	90.7mW
Co (IIB)	16.8uF	2.06uF	2.06uF	Co (IIB)	16.8uF	2.06uF	2.06uF
Lo (IIB)	24.69uH	2.98H	0.207H	Lo (IIB)	24.69uH	0.22H	0.32H

Transmitter 4700 with integral core processor			
Circuit:	Drive	Pick-Off	RTD
Uo	10.5V	21.0V	21.0V
Io	1.06A	2.10mA	5.78mA
Po	1.79W	11.0mW	30.4mW
Co (IIC)	2.41µF	0.188µF	0.188µF
Lo (IIC)	31.6µH	8.06H	1.06H
Lo/Ro (IIC)	12.77µH/Ω	3.22mH/Ω	1.17mH/Ω
Co (IIB)	16.8µF	1.27µF	1.27µF
Lo (IIB)	126.6µH	32.2H	4.26H
Lo/Ro (IIB)	51.1µH/Ω	12.9mH/Ω	4.69mH/Ω

Transmitter 5700 with 700 processor:				***Transmitter 5700 with 800 processor:***				***Transmitter 5700 with integral core processor:***			
Circuit:	Drive	Pick-Off	RTD	Circuit:	Drive	Pick-Off	RTD	Circuit:	Drive	Pick-Off	RTD
Uo	10.5V	17.2V	17.22V	Uo	10.5V	17.2V	17.2V	Uo	10.5V	17.2V	17.2V
Io	2.4A	6.9mA	26.17mA	Io	2.4A	25mA	21.07mA	Io	1.06A	6.9mA	19.15mA
Po	1.92W	29.69mW	112.69mW	Po	1.9W	41.4mW	90.7mW	Po	1.95W	29.69mW	82.36mW
Co (IIB)	16.8uF	2.11uF	2.06uF	Co (IIB)	16.8uF	2.11uF	2.06uF	Co (IIB)	16.8uF	2.11uF	2.11uF
Lo (IIB)	24.69uH	2.98H	0.207H	Lo (IIB)	24.69uH	0.22mH	0.32H	Lo (IIB)	126.57uH	2.98H	0.38H

Transmitter Output Parameters Continued

Transmitter 2200 with integral core processor:			
Circuit:	Drive	Pick-Off	RTD
Uo	10.5V	12.6V	12.6V
Io	2.46A	5.05mA	15.47mA
Po	0.8W	15.89mW	48.74mW
Co (IIB)	16.8uF	7.6uF	7.6uF
Lo (IIB)	23.5uH	5.57H	0.59H

Transmitter 4200 with integral core processor:			
Circuit:	Drive	Pick-Off	RTD
Uo	6.51V	6.51V	6.51V
Io	1.52A	2.61mA	12.31mA
Po	0.81W	4.24mW	20.03mW
Co (IIB)	500uF	500uF	500uF
Lo (IIB)	61.5uH	20.87H	0.35H

Transmitter 9739MVD with integral core processor:			
Circuit:	Drive	Pick-Off	RTD
Uo	10.5V	17.2V	17.2V
Io	1.04A	25mA	21.12mA
Po	2.094W	41.4mW	90.81mW
Co (IIB)	16.8uF	2.11uF	2.11uF
Lo (IIB)	131.49uH	0.22mH	0.31H

Sensor Conditions of Acceptability

HPL Sensors

1. This equipment may only be powered by Micromotion transmitters or a power supply unit with a limited energy electric circuit in accordance with CAN/CSA C22.2 No. 61010-1-12 and ANSI/UL 61010-1, or Class 2 as defined in the Canadian Electrical Code C22.1, Section 16-200 and/or National Electrical Code (NFPA 70), article 725.121.

2. HPL Series Mass Flow Sensor Models are only to be used with transmitters listed under CSA Report 80201871. The maximum transmitter output shall not exceed the values below:

Circuit:	Drive	Pick-Off	RTD
Uo	10.5V	21.0V	21.0V
Io	2.46A	25mA	26.17mA
Po	2.094W	41.4mW	112.69mW
Note: no restrictions for Co and Lo.			

3. Transmitter/J-box/Core Processor must be remotely mounted from the sensor if the sensor's process temperature causes the ambient temperature to exceed the Transmitter/J-box/Core Processor's rated minimum or maximum limits.

4. The non-metallic enclosure parts (adhesive nameplate) of this equipment may become a spark ignition hazard in the presence of static electricity. The enclosure shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.

Integral Transmitter

ATEX/IECEx Safe Area, or Zone 2 or Zone 1
CSA Safe Area, or Class I Div 2, or Class I Div 1

Transmitter	Model Codes	Model Code Char
1700	I, S	5th
2200S	I, J	6th
2700	I, S	5th
4200	I, S, J	5th
4700	I, S	5th
5700	I, S	5th

Sensors	Model Codes	Model Code Char
F025-F400	C, J, U, F, Z	10th
H025-H400	C, J, U, F, Z	10th
R025-R400	C, F, Z	10th
CNG050	C, F, Z	12th
HPC015,020,025	J, U, F, Z	12th
T025-T150	C, J, U, F, Z	10th
G025-G300	UA, UC, UM, UK, IC	12th -13th
CMFS007-150	F, Z	13th
CMF010-400	F, Z	12th
CMFHC2-4	Z	12th
HPL200-400	UA, UC, UM, UK	12th-13th
HPLHC2-3	UA, UC, UM, UK	12th-13th

Refer to specific Transmitter Installation Drawing

Integral Transmitter Continued

ATEX/IECEx Safe Area, or Zone 2
CSA Safe Area, or Class I Div 2

Transmitter	Model Codes	Model Code Char
FMT	I	5th
1600	I, H, S, T	5th
2400	I, J	5th
4200	I, S, J	5th
4700	I, S	5th
5700	I, S	5th

Sensors	Model Codes	Model Code Char
F025-F400	0, 1, L, K, Z	10th
H025-H400	0, 1, L, K, Z	10th
R025-R400	0, 1, L, K, Z	10th
CNG050	0, 1, L, K, Z	12th
HPC015,020,025	0, 1, Z	12th
T025-T150	0, 1, L, K, F, Z	10th
G025-G300	UF, UH, UA, UC, UK	12th -13th
CMFS007-150	0, 1, Z	13th
CMF010-400	0, 1, Z	12th
CMFHC2-4	0, 1, Z	12th
HPL200-400	UA, UC, UF, UH, UM, UK	12th-13th
HPLHC2-3	UA, UC, UF, UH, UM, UK	12th-13th

Refer to specific Transmitter Installation Drawing

Remote Transmitter, Core in Transmitter, 9WR

ATEX/IECEx Safe Area, or Zone 2 or Zone 1
CSA Safe Area, or Class I Div 2, or Class I Div 1

Transmitter	Model Codes	Model Code Char
1700	C, P	5th
2700	C, P	5th
4200	C, P	5th
4700	C, P	5th
5700	C, P	5th
9739MVD	-	-

TB

9WR Cable*

TB = Terminal Block

OR:

ATEX/IECEx Safe Area, or Zone 2
CSA Safe Area, or Class I Div 2

Transmitter	Model Codes	Model Code Char
1600 to Zone 2, Div 2 ONLY	C	5th
4200	C, P	5th
4700	C, P	5th
5700	C, P	5th

TB

9WR Cable*

Micro Motion Supplied Cable	9WR Cable
Maximum Cable Inductance	0.1001 uH/ft (Drive) 0.1342 uH/ft (PO/RTD)
Maximum Cable Capacitance	68 pF/ft
Maximum Cable L/R Ratio	10.9 uH/ohm
Typical Cable Resistance	7.25 ohm/1000ft
Maximum Length 1700/2700	60ft
Maximum Length all others	1000 ft

9WR Cable L/R value not to exceed 12.8 uH/ohm

Refer to specific Transmitter Installation Drawing

TB

ATEX/IECEx Safe Area, or Zone 2 or Zone 1**
CSA Safe Area, or Class I Div 2, or Class I Div 1**
****Sensor in Zone 2 or Div 2 ONLY with Remote 1600**

Drive +
Drive –
R Pickoff +
R Pickoff -
L Pickoff +
L Pickoff -
RTD HI
RTD SNS
RTD LO

Sensors	Model Codes	Model Code Char
F025-F400	R, H, S, T	10th
H025-H400	R, H, S, T	10th
R025-R400	R, H, S, T	10th
CNG050	R, H, S, T	12th
HPC015,020,025	R, H, S, T	12th
T025-T150	R, H, S, T	10th
G025-G300	9R, 9H, 9S, 9T	12th-13th
CMFS007-150	R, H, S, T	13th
CMF010-400	R, H, S, T	12th
CMFHC2-4	R, H, S, T	12th
HPL200-400	9R, 9S	12th-13th
HPLHC2-3	9R, 9S	12th-13th

* Circuits are Intrinsically Safe for Class I, Division 1, and Non-Incendive Field Wiring for Class I, Division 2

Remote Transmitter, Core on Sensor, 4WR

ATEX/IECEx Safe Area, or Zone 2 or Zone 1
CSA Safe Area, or Class I Div 2, or Class I Div 1

Transmitter	Model Codes	Model Code Char
1700	R, M	5th
2700	R, M	5th
3700*	5	9th
4700	R, M	5th
5700	R, M	5th

*not Div 1

TB

4WR Cable*

TB = Terminal Block

OR:

ATEX/IECEx Safe Area, or Zone 2
CSA Safe Area, or Class I Div 2

Transmitter	Model Codes	Model Code Char
1500	D	5th
2500	D	5th
3500	5	9th
4700	R, M	5th
5700	R, M	5th

TB

4WR Cable*

Micro Motion Supplied Cable	4WR Cable
Maximum Cable Inductance	0.24 uH/ft
Maximum Cable Capacitance	60 pF/ft
Maximum Cable L/R Ratio	17.0 uH/ohm
Typical Cable Resistance	7.25 ohm/1000ft
Maximum Length	1000 ft

4WR Cable L/R value not to exceed 17.1 uH/ohm
Refer to specific Transmitter Installation Drawing

ATEX/IECEx Safe Area, or Zone 2 or Zone 1
CSA Safe Area, or Class I Div 2, or Class I Div 1

TB

VDC+
VDC-
A
B

Sensors	Model Codes	Model Code Char
F025-F400	2-9,Q,A,V,B,W,D,Y,E	10th
H025-H400	2-9,Q,A,V,B,W,D,Y,E	10th
R025-R400	2-9,Q,A,V,B,W,D,Y,E	10th
CNG050	2-9,Q,A,V,B,W,D,Y,E	12th
HPC015,020,025	2-9	12th
T025-T150	2-9,Q,A,V,B,W,D,Y,E	10th
G025-G300	42-49	12th-13th
CMFS007-150	2-9	13th
CMF010-400	2-9	12th
CMFHC2-4	2-9	12th
HPL200-400	42-49	12th-13th
HPLHC2-3	42-49	12th-13th

* Circuits are Intrinsically Safe for Class I, Division 1, and Non-Incendive Field Wiring for Class I, Division 2

Remote Transmitter, Remote Core Processor

ATEX/IECEx Safe Area, or Zone 2 or Zone 1
CSA Safe Area, or Class I Div 2, or Class I Div 1

Transmitter	Model Codes	Model Code Char
1700	E, B	5th
2700	E, B	5th
3700*	6, 7	9th

*not Div 1

4WR Cable*

TB — TB

Core Model
700
800

TB — 9WR Cable*

ATEX/IECEx Safe Area, or Zone 2 or Zone 1
CSA Safe Area, or Class I Div 2, or Class I Div 1

TB = Terminal Block

OR:

ATEX/IECEx Safe Area, or Zone 2
CSA Safe Area, or Class I Div 2, or Class I Div 1

Transmitter	Model Codes	Model Code Char
1500	E, B	5th
2500	E, B	5th
3500	6, 7	9th

4WR Cable*

TB — TB

Core Model
700
800

TB — 9WR Cable*

TB

Drive +
Drive –
R Pickoff +
R Pickoff -
L Pickoff +
L Pickoff -
RTD HI
RTD SNS
RTD LO

Sensors	Model Codes	Model Code Char
F025-F400	R, H, S, T	10th
H025-H400	R, H, S, T	10th
R025-R400	R, H, S, T	10th
CNG050	R, H, S, T	12th
HPC015,020,025	R, H, S, T	12th
T025-T150	R, H, S, T	10th
G025-G300	9R, 9H, 9S, 9T	12th-13th
CMFS007-150	R, H, S, T	13th
CMF010-400	R, H, S, T	12th
CMFHC2-4	R, H, S, T	12th
HPL200-400	9R, 9S	12th-13th
HPLHC2-3	9R, 9S	12th-13th

* Circuits are Intrinsically Safe for Class I, Division 1, and Non-Incendive Field Wiring for Class I, Division 2

Micro Motion Supplied Cable	9WR Cable	4WR Cable
Maximum Cable Inductance	0.1001 uH/ft (Drive) 0.1342 uH/ft (PO/RTD)	0.24 uH/ft
Maximum Cable Capacitance	68 pF/ft	60 pF/ft
Maximum Cable L/R Ratio	10.9 uH/ohm	17.0 uH/ohm
Typical Cable Resistance	7.25 ohm/1000ft	7.25 ohm/1000ft
Maximum Length	60ft	1000 ft

4WR Cable L/R value not to exceed 17.1 uH/ohm
9WR Cable L/R value not to exceed 12.8 uH/ohm

Refer to specific Transmitter Installation Drawing

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Emerson Automation Solutions
Micro Motion Inc. USA
Worldwide Headquarters
7070 Winchester Circle
Boulder, Colorado 80301
T +1 303-527-5200
T +1 800-522-6277
F +1 303-530-8459
www.micromotion.com

Emerson Automation Solutions
Micro Motion Europe
Neonstraat 1
6718 WX Ede
The Netherlands
T +31 (0) 318 495 555
F +31 (0) 318 495 556
www.micromotion.nl

Emerson Automation Solutions
Micro Motion Asia
1 Pandan Crescent
Singapore 128461
Republic of Singapore
T +65 6777-8211
F +65 6770-8003

Emerson Automation Solutions
Micro Motion Romania
Str. Emerson Nr. 4
Cluj-Napoca 400641 Romania
T +40 364731012
F +40 364 731099

Emerson Automation Solutions
Micro Motion Japan
1-2-5, Higashi Shinagawa
Shinagawa-ku
Tokyo 140-0002 Japan
T +81 3 5769-6803
F +81 3 5769-6844

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