

TYPE APPROVAL CERTIFICATE

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the DNV GL Type Approval System.

Certificate No.	61 701 - 14 HH																										
Company	Micro Motion, Inc. 7070 Winchester Circle Boulder, Colorado 80301																										
Product Description	Coriolis Flow Meter																										
Type	Sensor F-Series: F025, F050, F100, F200, F300 Sensor Elite-Series: CMF200, CMF300, CMF400, CMFHC2, CMFHC3, CMFHC4 Transmitter / Controller: 1700, 2700, 3700																										
Environmental Category	C, F, EMC2																										
Technical Data / Range of Application	Range of Application: Measurement of mass flow, volume flow and density of liquids and gasses Technical Data (Sensors) Maximum flow rate (F-Series) <table> <tr> <td>Model:</td> <td>F025</td> <td>F050</td> <td>F100</td> <td>F200</td> <td>F300</td> </tr> <tr> <td>Flow rate [kg/h]:</td> <td>2720</td> <td>8160</td> <td>1200</td> <td>87100</td> <td>27200</td> </tr> </table> Maximum flow rate (Elite-Series) <table> <tr> <td>Model:</td> <td>CMF200</td> <td>CMF300</td> <td>CMF400</td> <td>CMFHC2</td> <td>CMFHC3</td> <td>CMFHC4</td> </tr> <tr> <td>Flow rate [kg/h]:</td> <td>87100</td> <td>272000</td> <td>545000</td> <td>762000</td> <td>2550000</td> <td>2040000</td> </tr> </table> Sensor case material: 304/3041 stainless steel Electronic enclosure material: painted aluminium Electronic: 800 Enhanced Core Processor with 4-wire connection for power supply and RS-485 communication	Model:	F025	F050	F100	F200	F300	Flow rate [kg/h]:	2720	8160	1200	87100	27200	Model:	CMF200	CMF300	CMF400	CMFHC2	CMFHC3	CMFHC4	Flow rate [kg/h]:	87100	272000	545000	762000	2550000	2040000
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Test Standard	GL Guidelines for the Performance of Type Approvals, Chapter 2 - Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2012																										
Documents	Product Data Sheet: PS-00603, Rev. N (April 2013) Product Data Sheet: PS-00374, Rev. Y (Nov. 2013) Product Data Sheet: PS-00292, Rev. C (March 2008) Product Data Sheet: PS-00400, Rev. L (Sept. 2012)																										
Remarks	This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007																										

Valid until **2019-11-06**

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Technical Data of Transmitters / Controllers

Model:	1700/2700	3350/3700*
Local display	2-line	Multi-line
Input signal	Frequency	Frequency
Output signal*	Frequency	Frequency
	4-20mA	4-20mA

Shielded cable required

*Ferrite beads to be installed on cables as instruction in the manufacturers doc. MMI-20017681

Power supply (nominal) 24VDC, 220/230V AC

Software versions:

800 Core Processor: V. 4.x; Model 1700/2700: V. 6.x; Model 3350/3700: V. 8.x

Further Documents:

- Test reports:
 - No. G100709939GRR-001, no. G100044687DET-001, no. CVN/2012269-1, no. 3196553BOX-001B
 - No. CPC 802620 01, no. CPC-710466-01 (incl. Annex 1 to 6), no. G100759186GRR-002
 - No. G100759186GRR-001_Rev A, no. NMi OIML Report CMF400 CVN 410178 -4, no. T10020 Rev. 1
 - No. TC7056 Rev. 02, no. CPC-802620-PR-01, no. G100759186GRR-002a, no. T10071 Rev. 01
 - No. 3700 – EFT/Burst – GL
- Drawings:
 - Application Manual: MMI-20017681, Rev. AD March 2014
 - Drawings: ER-20005413(FH), ER-20005379(IF), ER-20005378(KK), ER-20005372(LK)
 - Drawings: ER-20016220(AD), ER-20013951(CF), ER-20010735(IH), ER-20004463(MI)
 - Drawings: ER-20005731(TQ), ER-20005730(BD), ER-20004461(KG), ER-20003046(A)
 - Drawings: ER-20003401(A), ER-20003400(A), ER-20003398(D), ER-20003397(D)
 - Drawings: ER-20005371(MK), ER-20004462(LG), ER-20003102(B), ER-20003396(D)
 - Documents: 2700 / 3700 Circuit Diagrams, PCAs, Part Lists
- Software QA Documentation:
 - MVD Electronics Firmware Release Overview DSFY13-001; LWI 23 Rev. O; CP 36 Rev. I

Place(s) of Production:

- Micro Motion Inc.
 - 7070 Winchester Drive,
 - Boulder, Colorado 80301
 - USA
- Micro Motion Inc.
 - Ave. Miguel de Cervantes #111
 - Chihuahua,
 - Mexico 31136
- Emerson Process Management Flow BV
 - Neonstraat 1, 6718 WX Ede
 - The Netherlands

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