

**OIML Member State**  
The Netherlands

Number R 139/2018-A-NL1-24.03 revision 0  
Project number 3800929  
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Issuing authority NMI Certin B.V.  
Person responsible: M.Ph.D. Schmidt

Applicant Emerson Process Management Flow B.V.  
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The Netherlands

Manufacturer Micro Motion, Inc.  
7070 Winchester Circle  
Boulder, Colorado 80301  
United States of America

Identification of the certified type A **measuring device** (Coriolis), for the measurement of Compressed Natural Gas (CNG).  
Manufacturers mark: Micro Motion, Inc.  
Type: CNG 050

Characteristics See following page(s)

This OIML Certificate is issued under scheme A.

This Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML Type Evaluation Report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

**R 139: 2018** "Compressed gaseous fuel measuring systems for vehicles"

Accuracy class 1,5

This Certificate relates only to the metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML International Recommendation identified above. This Certificate does not bestow any form of legal international approval.

This certificate and supporting reports comply with the requirements of OIML-CS-PD-07 clause 6.2.

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Issuing Authority **NMI Certin B.V., OIML Issuing Authority NL1**  
22 July 2024

Certification Board

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The conformity was established by the results of tests and examinations provided in the associated reports:

- For the measuring device and flow transmitter, brand Micro Motion Inc., type CNG 050 and type MVD 700 and MVD 800:
  - No. NMI-3800929-01 dated 22 July 2024 that includes 28 pages.

### Characteristics of the measuring device

In Table 1, the general characteristics of the measuring device are presented. The construction of the measuring device is recorded in the Documentation folder no. TC11012-1, and TC7057-17 for the MVD core processors.

### Measuring device "CNG 050"

**Table 1 General characteristics**

Minimum – maximum flow rate	1,3 – 77 kg/min;
Minimum measured quantity	1 kg
Maximum pressure	317 or 345 bar(g) (depending on flange type)
Environmental classes	M2 / E2
Ambient temperature range	-40 – +55 °C; condensing humidity
Product temperature range	-25 – +55 °C
Intended for the measurement of	Compressed Natural Gas
Power supply voltage	24 V DC $\pm$ 20 % (with MVD Direct Connect I.S) 15 – 26 V DC

### Flow transmitter "MVD 700 Core Processor or MVD 800 Enhanced Core Processor"

**Table 2 General characteristics**

Environmental classes	M2 / E2
Ambient temperature range	-40 – +55 °C; condensing humidity
Power supply voltage	24 VDC

**Table 3 Software versions of the MVD series electronics**

Version	Checksum	Version	Checksum	Version	Checksum
<b>700 Core Processor</b>					
2.0	51FF	2.7	F666 <sup>*)</sup>	3.2	18D0
2.1	2B3F	2.8	1DEA <sup>*)</sup>	3.3	B0D1
2.2	9005	3.0	D00D <sup>*)</sup>	3.40	73A9
2.3	D75B	3.0 – ETO17153	97D6 <sup>*)</sup>	3.42	F00C
2.4	474F	3.11 – ETO19413	14AD	3.50	11AA
2.5	14AD	3.12	1F1B <sup>*)</sup>	3.52	3C4A
2.6	D732 <sup>*)</sup>	3.13 – ETO18951	8BF8 <sup>*)</sup>		
<b>800 Enhanced Core Processor</b>					
3.11	891378AB	3.94	47EB3E10	4.80	F1583A44
3.21	9893B999	3.96	756C1BFD	4.9	6083BF9B
3.30	A73D25DA	4.00	C582F843	5.08	4D368E71
3.42	7FA82CE8	4.02	8D61C368	5.10	82C541D9
3.50	D9343F05	4.14	40860C63	5.20	BD69FDD6
3.52	132CCB63	4.20	2983A9BE	5.22	F4A8D922
3.6	A9CA4E81	4.21– ETO21931	D6349259	5.23 – ETO45214	B1D70450
3.61 – ETO17170	9AA358FF	4.40	B280233F	5.30	65828884
3.7	BE73CD62	4.42	D7BA0841	5.33	BF3164F6
3.71 – ETO18982	580D32B6	4.50	6B48C624	5.40	0218C30B
3.8	8CA8E7D1	4.51– ETO32353	BC1660E8	5.50	761BF30F
3.81 – ETO20775	7931CE3D	4.51-ETO33244	D7B81135	5.60	5BE64A27
3.9	58CB3E0C	4.60	DDB76E3C		
3.91 – ETO21156	65F98DD7	4.70	AEB92E3F		

**Notes:**

<sup>\*)</sup> Indicated as 14AD, corrected from version 3.2



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## Installation conditions:

Installation of the measuring device with the MVD Direct Connect barrier is preferred to protect against EMI.

## Certificate history:

This revision replaces the previous version.

Revision	Date	Description of the modification
Initial	22 July 2024	First issue.