



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 06.0005X	issue No.:1	Certificate history: Issue No. 1 (2007-8-1) Issue No. 0 (2006-7-4)
Status:	Current		
Date of Issue:	2007-08-01	Page 1 of 4	
Applicant:	Micro Motion, Inc. Boulder, Co. 80301 United States of America		
Electrical Apparatus: <i>Optional accessory:</i>	Sensor type F*** ***** *****, H*** ***** *****, R*** ***** *****, CNG050***** *****		
Type of Protection:	Intrinsic safety		
Marking:	Ex ib IIB/IIC T5/T6		
<i>Approved for issue on behalf of the IECEx Certification Body:</i>	Dr. R. Jockers		
<i>Position:</i>	Head of Certification Body		
<i>Signature: (for printed version)</i>	_____		
<i>Date:</i>	_____		

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH





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Manufacturer: **Micro Motion, Inc.**
 Boulder, Co. 80301
United States of America

Manufacturing location(s):

Micro Motion Inc.

Ave. Miguel de Cervantes 111
 Complejo Industrial
 Chihuahua
 Chihuahua 31109
 Mexico

Micro Motion, Inc.

7070 Winchester Circle
 Boulder, CO 80301
 United States of America

Emerson Process

Management Co., Ltd

1277 Xin Jin Qiao Rd
 Jin Qiao Export Processing
 Zone
 Pudong
 Shanghai 201206
 China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
 Edition: 4.0
IEC 60079-11 : 2006 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
 Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

[DE/BVS/ExTR06.0037/00](#)
[DE/BVS/ExTR06.0037/01](#)

Quality Assessment Report:

[NO/DNV/QAR07.0002/00](#)
[NO/DNV/QAR07.0003/00](#)
[NO/DNV/QAR07.0004/00](#)





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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The flow sensor in combination with a transmitter is used for flow measurement.

The flow sensor, which consists of magnetically excited oscillating tubes, contains as electrical components coils, resistors, temperature sensors and terminals and connectors.

Instead of the junction box (F*** ***(R, H, S)*I****, H*** ***(R, H, S)*I****, R*** ***(R, H, S)*I**** and CNG050 ***(R, H, S)*I****) an enclosure with an integral mounted signal processing device type 700 (IECEx BVS 04. 0002U) can be used; this variation gets the denomination type F*** ***(A, B)*I****, H*** ***(A, B)*I****, R*** ***(A, B)*I**** and CNG050 ***(A, B)*I**** for a stainless steel enclosure and F*** ***(Q, V)*I****, H*** ***(Q, V)*I****, R*** ***(Q, V)*I**** and CNG050 ***(Q, V)*I**** for an aluminium enclosure.

When used with an integral mounted enhanced signal processing device type 800 (IECEx BVS 05.0010U); the variation gets the denomination type F*** ***(3, 5)*I****, H*** ***(3, 5)*I****, R*** ***(3, 5)*I**** and CNG050 ***(3, 5)*I**** for a stainless steel enclosure and F*** ***(2, 4)*I****, H*** ***(2, 4)*I****, R*** ***(2 or 4)*I****, CNG050 ***(2, 4)*I**** for an aluminium enclosure.

The high temperature version F*** (A, B, C, E)****I**** can be executed with a junction box, or transmitter, or core processor, or enhanced core processor; this variation has therefore always the denomination F*** (A, B, C, E)****I****.

Alternatively a transmitter type *700***** (IECEx BVS 04.0006X) can be mounted directly to the junction box; this variation gets the denomination type F*** ***(C, F)*I****, H*** ***(C, F)*I****, R*** ***(C, F)*I**** and CNG050 ***(C, F)*I****.

CONDITIONS OF CERTIFICATION: YES as shown below:

Special conditions for safe use

By mounting the sensor directly to the transmitter the use of the unit will be modified according to the following table:

	F025 ***(C, F)*I**** F050 ***(C, F)*I**** F100 ***(C, F)*I**** F200 ***(C, F)*I**** H025 ***(C, F)*I**** H050 ***(C, F)*I**** H100 ***(C, F)*I**** H200 ***(C, F)*I**** R025 ***(C, F)*I**** R050 ***(C, F)*I**** R100 ***(C, F)*I**** R200 ***(C, F)*I**** CNG050 ***(C, F)*I**** F025(A, B, C, E) ****(C, F)*I**** F050(A, B, C, E) ****(C, F)*I**** F100(A, B, C, E) ****(C, F)*I****	F300 ***(C, F)*I**** F300(A, B, C, E) ****(C, F)*I**** H300 ***(C, F)*I****
Transmitter type *700*1 ¹⁾ *****	Ex ib IIB+H2 T1-5	Ex ib IIB T1-5
Transmitter type *700*1 ²⁾ *****	Ex ib IIC T1-5	Ex ib IIB T1-5

¹⁾ at this place the numeral 1 or 2 can be inserted

²⁾ at this place the numeral 3, 4 or 5 can be inserted



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Issue 1

The manufacturing location Emerson Process Management Co., Ltd, Pudong Shanghai, People's Republic of China was added.

The manufacturer Micro Motion Inc., Boulder, United States of America changed the EXCB for quality supervision. Responsible is now DNV for all production sites.

The high temperature versions F*** (A,B,C,E)*****|***** can be manufactured with other coils and get therefore the additional marking with C.I.C. A1.

Also for testing of the sensors the new standard versions of IEC 60079-* have been taken as basis.

Additional information see Annex.

Annexe: [Annex_IECEX_BVS06.0005X.pdf](#), [Annex_IECEX_BVS_06.0005X_N1.pdf](#)