



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 04.0006X	issue No.:4	Certificate history: Issue No. 4 (2008-1-10) Issue No. 3 (2007-7-16) Issue No. 2 (2007-2-5)
Status:	Current		
Date of Issue:	2008-01-10	Page 1 of 4	
Applicant:	Micro Motion, Inc. Boulder, Co. 80301, USA United States of America		
Electrical Apparatus: <i>Optional accessory:</i>	Transmitter type *7*0*****		
Type of Protection:	Flameproof enclosures; Intrinsic safety; Increased safety; Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO)		
Marking:	Ex d[ib] IIB+H2 T6 or Ex de[ib] IIB+H2 T6 or Ex d[ib] IIC T6 or Ex de[ib] IIC T6 or Ex d[ia/ib] IIC T6 or Ex de[ia/ib] IIC T6 or Ex d[ia/ib] IIB+H2 T6 or Ex de[ia/ib] IIB+H2 T6 see description in Annex		
<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







IECEx Certificate of Conformity

Certificate No.: IECEx BVS 04.0006X

Date of Issue: 2008-01-10

Issue No.: 4

Page 2 of 4

Manufacturer: **Micro Motion, Inc.**
7070 Winchester Circle
Boulder, CO 80301
United States of America

Manufacturing location(s):

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

Micro Motion Inc.
Ave. Miguel de Cervantes
111
Complejo Industrial
Chihuahua
Chihuahua 31109
Mexico

**Emerson Process
Management Co., Ltd**
1277 Xin Jin Qiao Rd
Jin Qiao Export Processing
Zone
Pudong
Shanghai 201206
China

**Emerson Process
Management Flow BV**
Neonstraat 1
6718 WX Ede
The Netherlands

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 manufacturer'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 : 2000 Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2001 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosures 'd'
IEC 60079-11 : 1999 Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'
IEC 60079-27 : 2005-04 Edition: 1.0	Electrical apparatus for explosive atmospheres- Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FINCO)
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

*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

IECEx ATR:
**DE/BVS/ExTR06.0008/00 and DE/BVS/ExTR06.0008/01 and
DE/BVS/ExTR06.0008/02 and DE/BVS/ExTR06.0008/03 and
DE/BVS/ExTR06.0008/04**

File Reference:
**A 20020549 and A 20040486 and
A 20060813 and A 20070194 and
A 20070793**





IECEx Certificate of Conformity

Certificate No.: IECEx BVS 04.0006X

Date of Issue: 2008-01-10

Issue No.: 4

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The transmitter is, in combination with a sensor, used for measurement of mass flow and data transmission. The electrical circuitry of the transmitters is mounted inside a metal enclosure type 1700/2700..*..*.. which is divided into three compartments.

In the compartment type of protection "Flameproof Enclosure" the Terminal Board, Power Supply Board, I.S. output Board (for type *700*1*D*****) or non-I.S. output board (for type *700*1*A***** and type 2700*1*(B or C)*****) or Fieldbus Board (only for type 2700*1*(E or G)*****) and display board (for type *700*1(1 or 4)*****) are mounted.

The compartment "Increased Safety" (type *700*1***E****) or "Flameproof Enclosure" (type *700*1***I****) is equipped with terminals for the connection of intrinsically safe circuits as well as non intrinsically safe circuits.

The enclosure is constructed with a terminal compartment for the connection of remotely operating intrinsically safe sensors (type *700R1*****).

Alternatively, the enclosure can be mounted directly to the sensor via a transition compartment for the incorporation of the signal processing device type 700 in accordance with IEC Ex BVS 04.0002 U (type *700I1*****). This type of mounting has to be certified separately.

The transmitter type *700C1***** is constructed with a terminal compartment for the incorporation of the signal processing device type 700 (IEC Ex BVS 04.0002 U) and a connection board. The transmitter type *700B1***** is to be used with a remotely mounted processor in accordance with IEC Ex BVS 04.0005.

A variation, type 750(D or E)1*(J or K)*****, is also available.

CONDITIONS OF CERTIFICATION: YES as shown below:

Provision is made for threaded entries in the walls for the fitting of suitable and certified cable glands.

For the application of the transmitter in an ambient temperature of less than - 20 °C suitable cable and cable entries or conduit entries certified for this condition shall be used.

If certified conduit entries are used for the connection of the transmitter enclosure, the associated stopping boxes shall be installed immediately at the enclosure.





IECEx Certificate of Conformity

Certificate No.: IECEx BVS 04.0006X

Date of Issue: 2008-01-10

Issue No.: 4

Page 4 of 4

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

Issue 4:

The manufacturing location Emerson Process Management Flow BV., Ede, The Netherlands, was added.

The following modifications of the transmitter are possible:

- Analog Board, Fieldbus Board and Terminal-EMI Board have been revised.
- A new variation is available: type *750(D or E)1*(J or K)*****.

Modified parameters

See Annex for Issue 4



Annexe: [BVS_04_0006X_issue_4_Annex.pdf](#)