



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 SIR 13.0096X** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2014-01-06** Page 1 of 3

Applicant: **Micro Motion Inc.**
7070 Winchester Circle
Boulder
Colorado 80301
United States of America

Electrical Apparatus: **Density/Viscosity Transmitter Type HFVM, FVM & FDM**
Optional accessory:

Type of Protection: **Type nA**

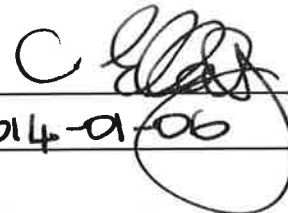
Marking: **Ex nA IIC T6 Gc** or **Ex nA IIC T4 Gc (User Interface version)**
-40°C ≤ Ta ≤ +65°C **-40°C ≤ Ta ≤ +65°C**

Approved for issue on behalf of the IECEx Certification Body: **C Ellaby**

Position: **Deputy Certification Manager**

Signature:
(for printed version)

Date:


2014-01-06

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:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Page 2 of 3

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

Additional Manufacturing location
(s):

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

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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4

*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:

[GB/SIR/ExTR13.0248/00](#)

Quality Assessment Report:

[NO/DNV/QAR07.0003/04](#)



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Date of Issue: 2014-01-06

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Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These Density/Viscosity Meters are used to measure fluid density and viscosity; in addition, they create I/O signals for data transmission. There are three versions, Micro Motion Fork Density Meter (FDM), Fork Viscosity Meter (FVM) and Heavy Fuel Viscosity Meter (HFVM).

The Meters are a combination of a certified transmitter and a fork sensor. The electronic module for the transmitter is mounted inside a universal aluminium enclosure, which has an ingress protection IP66/IP67. It consists of two boards; a power board and a microprocessor board, both are inserted into a plastic shell which is filled with potting material. The transmitter can be operated with a user interface (display with menu buttons). The fork sensor is available in two styles, 'Standard' and 'Long Stem', both are filled with encapsulant to exclude the explosive atmosphere. The sensors have a fork/crystal assembly and spigot/flame path, however, the 'Long Stem' version has a sealed tube connecting them with cable entering at the ends through flameproof glands. The crystal/fork assembly is internally pressure tested after welding.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. Any external heating or cooling source shall not exceed the process temperature limitations of -40°C to +200°C.