



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 FMG 15.0019X Issue No: 0 Certificate history:
Issue No. 0 (2015-09-09)

Status: **Current** Page 1 of 4

Date of Issue: **2015-09-09**

Applicant: **Sierra Instruments Inc.**
5 Harris Court
Building L
Monterey, CA 93940
United States of America

Electrical Apparatus: **240i and 241i Inline and Insertion Mass Vortex Flowmeters**
Optional accessory:

Type of Protection: **Flameproof, db; Protection by enclosure, tb**

Marking:
Ex db IIC T3 Gb Ta = -20°C to +60°C, IP66
Ex tb IIIC T200°C Db Ta = -20°C to +60°C, IP66

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

Manager, Electrical Systems

Signature:
(for printed version)

Date:

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:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





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Manufacturer: **Sierra Instruments Inc.**
5 Harris Court
Building L
Monterey, CA 93940
United States of America

Additional Manufacturing
location(s):

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 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

*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:

[US/FMG/ExTR15.0022/00](#)

Quality Assessment Report:

[GB/FME/QAR13.0016/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

240i-a-3-b-c-d-e-f-ST-g h-i. Inline Mass Vortex Flowmeter.

a = Multivariable V, VT or VTP.

b = Flow body F4, F5, F6, F7, F8, F9, F10, G4, G5, G6, G7, G8, G9, G10, H4, H5, H6, H7, H8, H9, H10, FD4, FD5, FD6, FD7, FD8, FD9, FD10, GD4, GD5, GD6, GD7, GD8, GD9, GD10, HD4, HD5, HD6, HD7, HD8, HD9 or HD10.

c = Enclosure E2 or E4(*). *Specify cable length (50 feet maximum).

d = Display DD or NR.

e = Power P2 or PS.

f = Output V6, V6H, V6M, V6DP2 or V6FF.

g = Process pressure MP0[†], MP1*, MP2*, MP3* or MP4*. [†]V or VT only. *VTP only.

h = Certificates BLANK or MC, PT, CC or NC.

i = Oxygen cleaning BLANK or O2C.

241i-a-3-b-c-d-e-f-ST-g-h i-j-k. Insertion Mass Vortex Flowmeter.

a = Multivariable V, VT or VTP.

b = Probe length LS or LC.

c = Enclosure E2 or E4(*). *Specify cable length (50 feet maximum).

d = Display DD or NR.

e = Power P2 or PS.

f = Output V6, V6H, V6M, V6DP2 or V6FF.

g = Process pressure MP0[†], MP1*, MP2*, MP3* or MP4*. [†]V or VT only. *VTP only.

h = Process connection CO, CM, CF, CG, CH, PM, PF, PG, PH, CFD, CGD, CHD, PFD, PGD or PHD.

i = Certificates BLANK or MC, PT, CC or NC.

j = Oxygen cleaning BLANK or O2C.

k = Retractor BLANK or 241-Retractor.

CONDITIONS OF CERTIFICATION: YES as shown below:



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1. The flameproof joints of the equipment are not intended to be repaired. Consult the manufacturer if repair of the flameproof joints is necessary.

2. F or probes longer than 13 inches, a suitably certified conduit sealing device is required to be installed between the main enclosure and the probe body. The seal shall be located within 13 inches of the main enclosure .