



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX FMG 19.0028U**

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Certificate history:

Status: **Current**

Issue No: 7

[Issue 6 \(2021-10-25\)](#)

[Issue 5 \(2021-07-27\)](#)

[Issue 4 \(2021-06-14\)](#)

[Issue 3 \(2021-02-05\)](#)

[Issue 2 \(2021-01-11\)](#)

[Issue 1 \(2020-02-05\)](#)

[Issue 0 \(2019-11-25\)](#)

Date of Issue: 2022-06-17

Applicant: **Nevada Nanotech Systems, Inc.**
1395 Greg Street, Suite 102,
Sparks, NV 89431.
United States of America

Ex Component: MPSaaa-bbccdd-ef

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Intrinsically Safe "ia"**

Marking: IECEx FMG 19.0028U

Ex ia IIC Ga Ta = -40°C to +75°C

Ex ia IIIC Da Ta = -40°C to +75°C

Approved for issue on behalf of the IECEx
Certification Body:

J. E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

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





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Manufacturer: **Nevada Nanotech Systems, Inc.**
1395 Greg Street, Suite 102,
Sparks, NV 89431.
United States of America

Manufacturing
locations:

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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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

TEST & ASSESSMENT REPORTS:

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

Test Reports:

[US/FMG/ExTR19.0023/00](#)
[US/FMG/ExTR19.0023/03](#)
[US/FMG/ExTR19.0023/06](#)

[US/FMG/ExTR19.0023/01](#)
[US/FMG/ExTR19.0023/04](#)
[US/FMG/ExTR19.0023/07](#)

[US/FMG/ExTR19.0023/02](#)
[US/FMG/ExTR19.0023/05](#)

Quality Assessment Report:

[GB/FME/QAR19.0020/00](#)



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Ex Component(s) covered by this certificate is described below:

MPSaaa-bbccdd-ef Combustible Sensor

aaa = Product Family: Any 3 alphanumeric combination

bb = Form/Size: S4

cc = Hardware Configuration: 03, 04, 05, 23, 24, or 25

dd = Software Configuration: Any 2 alphanumeric combination

e = Certification: **E**

f = Production Classification: Any alphanumeric combination

For hardware configurations 03, 04, & 05:

Ui = 6V; Ii = 1.8A; Ci = 19.5 μ F; Li = 0; Pi = 870mW.

For hardware configurations 23, 24, & 25:

Ui = 6V; Ii = 1.8A; Ci = 8.3 μ F; Li = 0; Pi = 870mW.

SCHEDULE OF LIMITATIONS:

1. The functionality of the sensor shall be verified as necessary in accordance with the appropriate performance standard.
2. The component shall be installed within an enclosure with a minimum ingress protection rating of IP20.
3. The intrinsically safe parameters for the sensor shall be applied to the intrinsically safe device to which the sensor is connected.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor documentation updates