



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 FME 13.0003X

Issue No: 1

Certificate history:

Issue No. 1 (2016-06-21)

Issue No. 0 (2013-05-10)

Status: **Current**

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Date of Issue: **2016-06-21**

Applicant: **Senmatic A/S**
Industrivej 8
DK 5471 Sønderlø
Denmark

Equipment: **Type-MNS Temperature Sensor**

Optional accessory:

Type of Protection: **Intrinsic Safety 'i'**

Marking:

Ex ia IIC T6

See Conditions of Certification for ambient temperature

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

Mick Gower

Position:

Certification Manager

*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](#).

Certificate issued by:

FM Approvals Ltd
1 Windsor Dials
SL4 1RS Windsor
United Kingdom





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Manufacturer: **Senmatic A/S**
Industrivej 8
DK 5471 Søndersø
Denmark

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 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

*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/FME/ExTR13.0002/00](#) [GB/FME/ExTR13.0002/02](#)

Quality Assessment Report:

[SE/SP/QAR12.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Mineral insulated thermometer for temperature measurement in insulation and concrete surroundings e.g. liquid gas tanks and LNG tanks (coiled diameter min. 1 m).

Measuring temp. range: -200°C to 100°C.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Type-MNS has an service temperature range of -200°C to +100°C for the probe tip and -50 °C to +70 °C at the mounting flange. To avoid the effects of process temperature and other thermal effects care shall be taken to ensure that the temperature at the mounting flange does not exceed 70 °C.



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

Added new epoxy, alternative cable, and new wire spacer. Safety is not affected.
Also, created a new CDL for project 3042102.

The temperature code was corrected from T4 to T6.