



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEX BAS 11.0035X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2020-04-30)
Date of Issue:	2024-12-17		Issue 2 (2019-02-11)
Applicant:	<b>nVent Thermal Belgium NV</b> Research Park Haasrode - Zone 2 Romeinsestraat 14 B-3001 Leuven <b>Belgium</b>		Issue 1 (2013-04-11)
Equipment:	<b>MONI-PT100-SENSOR</b>		Issue 0 (2011-03-08)
Optional accessory:			
Type of Protection:	<b>Increased safety, dust protected</b>		
Marking:	<b>Ex eb IIC T6 Gb Ta -50°C to +60°C</b> <b>Ex tb IIIC T85°C Db IP66 Ta -50°C to +60°C</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**D Brearley**

Position:

**Lead Certification Engineer**

Signature:  
(for printed version)

17/12/2024

Date:  
(for printed version)

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**SGS UK Limited**  
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**Staden Lane**  
**Buxton, Derbyshire SK17 9RZ**  
**United Kingdom**





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Manufacturer: **nVent Thermal Belgium NV**  
Research Park Haasrode - Zone 2  
Romeinsestraat 14  
B-3001 Leuven  
**Belgium**

Manufacturing locations: **nVent Thermal Belgium NV**  
Research Park Haasrode - Zone 2  
Romeinsestraat 14  
B-3001 Leuven  
**Belgium**

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 equipment 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 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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 equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[GB/BAS/ExTR12.0010/00](#)  
[GB/SGS/ExTR24.0070/00](#)

[GB/BAS/ExTR18.0124/00](#)

[GB/BAS/ExTR20.0051/00](#)

Quality Assessment Report:

[GB/BAS/QAR07.0053/11](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The MONI-PT100-SENSOR comprises a PT100 platinum resistance element contained within a 5mm diameter stainless steel bulb, joined by a variable length of 3mm diameter stainless steel sheathed mineral insulated cable to a cold junction with cable tails for connection in a suitable junction box. All sensors are rated up to 0.15W.

The 5mm bulb of the above sensor may be replaced with a 3mm diameter bulb to form a type MONI-PT100-SENSOR model V.

The sensor can be provided with two PT100 platinum resistance elements within a 6mm diameter probe to produce a duplex sensor.

The sensor is available in a short version having an additional threaded collar suitable to receive a wind shield tube to assist in the measurement of ambient temperature.

Entry into a junction box is effected via a suitably certified cable gland. The sensors provided ingress protection IP66 when fitted with a gland to IECEx BAS 11.0034X.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. The temperature at the sensor bulb shall not exceed 585°C
2. The sensors provided without a gland must be installed using a suitably certified cable gland to maintain the IP rating of the enclosure.
3. The temperature at the cable gland shall not exceed 60°C.
4. The minimum bend radius is 6 times the diameter of the probe.
4. The minimum installation temperature is -50 °C .
5. The integral conductors must be suitably terminated and protected from impact.
6. The probe gland must be tightened to a torque of 8Nm.



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

### Variation 4.1

To confirm that the MONI-PT100-SENSOR complies with the latest requirements of IEC 60079-7:2015 Edition 5.1.

ExTR: **GB/SGS/ExTR24.0070/00**

File Reference: **24/0130**