



# 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.: **IECEX BAS 11.0033X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 3 Issue 2 (2019-02-11)  
Date of Issue: 2019-04-30 Issue 1 (2013-04-11)  
Applicant: **nVent Thermal Belgium NV** Issue 0 (2012-01-26)  
Research Park Haasrode - Zone 2  
Romeinsestraat 14  
B-3001 Leuven  
**Belgium**  
Equipment: **A Moni PT100-Ex e Sensor Assembly**  
Optional accessory:  
Type of Protection: **Increased safety, dust protected**  
Marking: **Ex eb IIC T6 Gb Ta -50°C to +60°C**  
**Ex tb IIIC T85°C Db Ta -50°C to +60°C IP66**

Approved for issue on behalf of the IECEx  
Certification Body:

**R S Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

*PP Powney*  
M POWNEY  
Certification  
Manager

Date:

*30/4/20*

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**SGS Baseefa Limited**  
**Rockhead Business Park**  
**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**

Additional  
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 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 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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

Test Reports:

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

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

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

Quality Assessment Report:

[GB/BAS/QAR07.0053/08](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Type MONI-PT100-Ex e Sensor Assembly comprises an assembly of the following certified items:-

- a) A Rose Type 26 08 08 06 GRP Enclosure afforded IECEx PTB 08.0003U or Raychem RPG GRJ 807555 Enclosure afforded IECEx SIR 18.0070U.
- b) A WAGO terminal strip type 264-\*\*\*/\*/\* afforded IECEx PTB 04.0003U.
- c) Type RTL 671T Temperature Sensor afforded IECEx BAS11.0035X.
- d) An M16 brass M.I cable gland afforded IECEx BAS11.0034X.

An M20 threaded hole is provided to facilitate the connection of external cables, via a suitably certified Ex e or Ex d cable gland to maintain the IP66 ingress protection of the enclosure.

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

1. Not more than one single or multiple strand lead shall be connected to either side of the terminals, unless the conductors have been joined in a suitable manner, e.g two conductors into a single insulated boot lace ferrule.
2. Leads connected to the terminals shall be insulated suitable for 255V and this insulation shall extend to 1mm of the terminal throat.
3. All terminal screws, used or unused, shall be tightened to between 0.5 Nm and 0.7 Nm.
4. The temperature at the sensor bulb shall not exceed 585°C.
5. The temperature at the cable gland shall not exceed 60°C.
6. The minimum bend radius is 6 times the diameter of the probe.
7. The minimum installation temperature of the probe is -50 °C .
8. 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 3.1

To assess and confirm that the equipment covered by this certificate has been assessed against the latest requirements of the following standards: IEC 60079-0:2017, IEC 60079-7:2015 and IEC 60079-31:2013.

### Variation 3.2

To introduce an alternative Ex component enclosure, a Raychem RPG GRJ 807555 enclosure, afforded IECEx SIR 18.0070U.

### Variation 3.3

To clarify the description of the equipment.

ExTR: **GB/BAS/ExTR20.0051/00**

File Reference: **18/0129**