1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

3 EU - Type Examination Certificate Number: **Baseefa11ATEX0070X – Issue 3**

4 Product: **MONI-PT100-SENSOR**

5 This certificate is held by: **nVent Thermal Belgium NV**

6 Address: **Research Park Haasrode – Zone 2, Romeinse straat 14, B-3001 Leuven, Belgium**

7 This re-issued certificate extends EU Type Examination Certificate No. Baseefa11ATEX0070X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

II 2 GD Ex eb IIC T6 Gb Ta -50°C to +60°C

Ex tb IIIC T85°C Db Ta -50°C to +60°C IP66

SGS Fimko Oy Customer Reference No. **5034** Project File No. **24/0130**

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi
Business ID 0978538-5 Member of the SGS Group (SGA SA)

Mikko Välimäki
SGS Fimko Oy

13 # Schedule

14 ## Certificate Number Baseefa11ATEX0070X – Issue 3

15 Description of Product

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

16 Report Number

See Certificate History

17 Specific Conditions of Use

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.
5. The minimum installation temperature is –50°C.
6. The integral conductors must be suitably terminated and protected from impact.
7. The probe gland must be tightened to a torque of 8Nm.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product:

Clause	Subject	Compliance
1.2.7	LVD type requirements	Directive requires manufacturer's declaration.
1.2.8	Overloading of equipment (protection relays, etc.)	Covered by installation rules and manufacturer's instructions
1.4.1	External effects	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions
1.4.2	Aggressive substances, etc.	The Purchaser should make the manufacturer aware of such issues. Covered in Instructions

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
RGD 1102-124	1 of 1	4	18-07-2024	RTL671 nVent Sensor Label

This drawing is common to Baseefa11ATEX0070X, IECEx BAS 11.0035X & SGS24UKEX0068X and is held with IECEx BAS 11.0035X.

Current drawings which remain unaffected by this issue:

None.

20 Certificate History

Certificate No.	Date	Comments
Baseefa11ATEX0070X	17 January 2012	The release of the prime certificate. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR12.0010/00 and Project File No. 09/0859.
Baseefa11ATEX0070X /1	11 February 2019	To confirm the certificate is now held in the name of nVent Thermal Belgium NV and to update the product marking appropriately. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR18.0124/00 and Project File No. 17/0864.
Baseefa11ATEX0070X /2	30 April 2020	To confirm that the equipment covered by this certificate has been assessed against the latest requirements of the following standards: IEC EN 60079-0:2018, EN 60079-7:2015 and EN 60079-31:2014. Additionally, this variation permits a name change for Type RTL 671 Temperature sensor, such that the name is as follows: MONI-PT100-SENSOR and clarifies the description of the equipment. The associated test and assessment is documented in Test Report No. GB/BAS/ExTR20.0051/00 and Project File No. 18/0129.
Baseefa11ATEX0070X Issue 3	17 December 2024	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms that the equipment covered by this certificate has been assessed against the latest requirements of EN IEC 60079-7:2015+Al:2018. The associated test and assessment is documented in Test Report No. GB/SGS/ExTR24.0070/00 and Project File No. 24/0130.
For drawings applicable to each issue, see original of that issue.		