



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

Certificate No.: IECEx DEK 11.0002X Issue No: 2 Certificate history:  
Status: **Current** Page 1 of 4 [Issue No. 2 \(2017-02-17\)](#)  
Date of Issue: **2017-02-17** [Issue No. 1 \(2014-07-08\)](#)  
[Issue No. 0 \(2011-05-06\)](#)  
Applicant: **Thermo Electric Instrumentation B.V.**  
Coenecoop 71-73  
2741PH Waddinxveen  
**The Netherlands**  
Equipment: **Temperature Sensor Assembly Type XPS1, Type XPS2, Type XPS3 and  
Type XPS4**  
*Optional accessory:*  
Type of Protection: **Ex d, e, i and nA**  
Marking: XPS1: Ex e IIC T6 ... T1  
XPS2: Ex ia IIC T6...T1 or Ex ib IIC T6...T1  
XPS3: Ex d IIC T6...T1  
XPS4: Ex nA IIC T6...T1

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

R. Schuller

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

2017-02-17

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:

**DEKRA Certification B.V.**  
Meander 1051,  
6825 MJ Arnhem  
The Netherlands





# IECEX Certificate of Conformity

Certificate No: IECEx DEK 11.0002X

Issue No: 2

Date of Issue: 2017-02-17

Page 2 of 4

Manufacturer: **Thermo Electric Instrumentation B.V.**  
Coencoop 71-73  
2741 PH Waddinxveen  
**The Netherlands**

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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-15 : 2010</b> Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[NL/DEK/ExTR11.0008/00](#)

[NL/DEK/ExTR11.0008/01](#)

[NL/DEK/ExTR11.0008/02](#)

Quality Assessment Report:

[NL/DEK/QAR11.0017/04](#)



# IECEx Certificate of Conformity

Certificate No: IECEx DEK 11.0002X

Issue No: 2

Date of Issue: 2017-02-17

Page 3 of 4

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Temperature Sensor Assembly, Type XPS1, Type XPS2, Type XPS3 and Type XPS4 for temperature measurement, in different versions, consists of one or more inserts, a junction box or a connection head provided with terminals and optional extension parts.

Types XPS2, XPS3 and XPS4 may be provided with one or more temperature transmitters.

The insert consists of a metal sheathed mineral insulated cable available in various diameters and lengths, provided with one or two thermocouple or RTD temperature sensing elements.

The tip of the mineral insulated cable is closed by welding.

The other side of the mineral insulated cable is either

- provided with a potted transition part and a cable, available with various insulating materials, with or without braiding or

- provided with a potted end, lead wires and optionally a terminal block.

The inserts with the transition part and cable are available for Types XPS1, XPS2 and XPS4

For more detailed information see annex 1.

### CONDITIONS OF CERTIFICATION: YES as shown below:

See annex 1 attached to this certificate



# IECEx Certificate of Conformity

---

Certificate No: IECEx DEK 11.0002X

Issue No: 2

Date of Issue: 2017-02-17

Page 4 of 4

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

Change of parameter Ii = 1.2 A for model XPS2.

**Annex:**

[DEK11.0002X-Iss2 Annex1.pdf](#)