



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.: issue No.:

Status:

Date of Issue: Page 1 of 3

Applicant: **Rodax N.V.**
Santvoortbeeklaan 33
B-2100 Antwerpen
Belgium

Electrical Apparatus: **Temperature sensor**
Optional accessory:


Type of Protection: **Ex i**

Marking: **Ex ia IIC T6...T1 Ga**
Ex ia IIIC T85 °C Da

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

Position: Certification Manager

Signature:
(for printed version)



Date: 2011-11-30

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

Certificate issued by:
DEKRA Certification B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands

All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group.





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Certificate No.: IECEX DEK 11.0037X

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Manufacturer: **Rodax N.V.**
Santvoortbeeklaan 33
B-2100 Antwerpen
Belgium

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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'iD'

*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/ExTR11.0029/00](#)

Quality Assessment Report:

[NL/KEM/QAR08.0050/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Temperature Sensors, types TCRI/TCTI, PT100RI/PT100TI, PT100WI/PT100KI and TCWI/TCKI for temperature measurement, in different versions, consists of one or more inserts, a connection head provided with terminals or a permanently fixed lead wire and optionally extension parts.

The inserts have up to 3 thermocouple or up to 2 RTD temperature sensing elements.

The sensor assembly is provided with terminals for connection to up to 3 external intrinsically safe circuits or is provided with a temperature transmitter.

For thermal and electrical data see attachment.

For use in a potentially explosive gas atmosphere the connection head shall provide a degree of protection of at least IP20 according to IEC 60529, or higher when the environment requires so.

For use in a potentially explosive dust atmosphere the connection head shall provide a degree of protection of at least IP6X according to IEC 60529, and that is suitable for the application and is correctly installed.

CONDITIONS OF CERTIFICATION: YES as shown below:

If the connection head of the Temperature Sensor is made of aluminium and it is mounted in an area where the use of equipment with EPL Ga is required, the head must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

If the connection head of the Temperature Sensor is made of non-conductive non-metallic material and it is mounted in an area where the use of equipment with EPL Ga is required, precautions have to be taken to avoid electrostatic charges.

Ambient temperature range: see attachment.