



# 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 IBE 23.0036X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2024-02-12  
Applicant: **Paul Rüster & Co. GmbH**  
Dorfplatz 11, 14532 Stahnsdorf  
Germany  
Equipment: **Temperature sensor type UQ 0035-\*\*\*\* Rüster, UQ 0038-\*\*\*\* Rüster and UQ 0043-\*\*\*\* Rüster**  
Optional accessory:  
Type of Protection: **Increased safety "ec"**  
Marking: **Ex ec IIC T4...T3 Gc**

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr.-Ing. Peter Cimalla**

Position:

**Deputy Head of department Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

2024-02-12

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Certificate issued by:

**IBExU Institut für Sicherheitstechnik GmbH**  
Fuchsmühlenweg 7  
09599 Freiberg  
Germany





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Date of issue: 2024-02-12

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Manufacturer: **Paul Rüster & Co. GmbH**  
Dorfplatz 11, 14532 Stahnsdorf  
Germany

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 60079-7:2017](#) 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 Report:

[DE/IBE/ExTR23.0036/00](#)

Quality Assessment Report:

[DE/IBE/QAR14.0003/05](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The temperature sensors serve for controlling gas turbines, machines or similar devices. The thermocouple is inside a metallic protective pipe. The electrical connection is carried out either by means of connection head or plug connectors.

## Technical data:

Rated voltage:	≤ 50 mV
Rated current:	≤ 5 μA
Thermocouples:	type K, N (acc. to IEC 60584)
Measuring temperature range:	-40 °C up to +1000 °C
Ambient temperature range:	-40 °C up to +90 °C/+125 °C (connector, type UQ 0043-*** Rüster) -40 °C / -15 °C up to +150 °C (connection head, types UQ 0035-**** Rüster, UQ 0038-**** Rüster)

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

A continuous equipotential bonding has to be maintained after installation the temperature sensor.

When using the plug-in connectors, the instructions in the operating manual must be observed.

The connection cable must be installed mechanically protected and must be suitable for the maximum ambient temperature.

Only suitable and conformity assessed cable glands are permitted for use.

Unused openings must be closed with suitable and conformity assessed blanking elements.

The permissible ambient temperature range and the assignment of the temperature class are specified in the operating instructions.

The reduced dielectric strength of the sensors must be observed in accordance with the operating instructions.

The temperature sensor may also be used as simple apparatus in accordance with IEC 60079-11 in intrinsically safe circuits for potentially explosive atmospheres that require equipment with EPL Gb or Gc. The verification of intrinsic safety must be conducted in accordance with IEC 60079-14. In this context, the reduced dielectric strength of the temperature sensor as specified in the operating instructions must be observed.