



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

Certificate No.: **IECEx DEK 24.0005X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-01-17

Applicant: **PR Electronics A/S**
Lerbakken 10, 8410 Rønde
Denmark

Equipment: **PROFIBUS PA temperature transmitter type 5450A**, 5450D****

Optional accessory:

Type of Protection: **Ex i, Ex e**

Marking: 5450D**:
Ex ia IIC T6...T4 Ga
Ex ib [ia Ga] IIC T6...T4 Gb

Ex ia IIIC T85 °C...T110 °C Db
Ex ia I Ma

5450A**:
Ex ec IIC T6...T4 Gc
Ex ic IIC T6...T4 Gc
Ex ic IIIC T85 °C...T110 °C Dc

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2025-01-17

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands





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Manufacturer: **PR Electronics A/S**
Lerbakken 10, 8410 Rønde
Denmark

Manufacturing
locations: **PR Electronics A/S**
Lerbakken 10, 8410 Rønde
Denmark

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[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:

[NL/DEK/ExTR24.0006/00](#)

Quality Assessment Report:

[NL/DEK/QAR13.0017/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The 5450 series of transmitters are all temperature transmitters, but with a different number of sensor inputs. They are loop-powered two wire devices converting one or two temperature sensor or other types of signals to a Profibus® signal.

The transmitters are galvanic isolated between sensor(input) and supply(output).

The dedicated extension port 'EXT' (8-pin-header hidden under a small plastic lid) may only be connected to equipment that is predefined by PR electronics A/S.

The transmitters type 5450 are suitable for mounting in an enclosure form B according to DIN 43729 or equivalent.

See Annex 1 for type designation, thermal data and electrical data.

SPECIFIC CONDITIONS OF USE: YES as shown below:

For the ambient temperature range see Annex 1 or the installation instructions.

Ex i:

For EPL Ma, Ga, Gb or Gc, the transmitter shall be mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, and that is suitable for the application and correctly installed.

For EPL Db or Dc, the transmitter shall be mounted in a certified enclosure that provides a degree of protection of at least IP5X according to IEC 60079-0, and that is suitable for the application and correctly installed.

Ex ec:

For EPL Gc, the transmitter shall be mounted in a certified enclosure that provides a degree of protection of at least IP54 according to IEC 60079-0, and that is suitable for the application and correctly installed.

The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

Annex:

[227632200-Annex 1 to ExTR24.0006.00.pdf](#)