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 KEM 10.0068X**

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Status: **Current**

Issue No: 11

Date of Issue: 2023-05-16

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

Equipment: **Isolators and Converters of system 3000**

Optional accessory:

Type of Protection: **Ex ec, nA**

Marking: Ex ec IIC T4 Gc or
Ex ec nC T4 Gc

Certificate history:

Issue 10 (2021-11-22)
Issue 9 (2020-10-26)
Issue 8 (2020-09-02)
Issue 7 (2016-12-23)
Issue 6 (2014-07-18)
Issue 5 (2013-09-27)
Issue 4 (2013-03-29)
Issue 3 (2012-07-05)
Issue 2 (2011-06-30)
Issue 1 (2011-05-31)

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

Position: **Certification Manager**

Signature: (for printed version)

Date: (for printed version) 2023-05-16

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 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

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/KEM/ExTR10.0077/11

Quality Assessment Report:

NL/DEK/QAR13.0017/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Description

Isolators and Converters of system 3000 Type 3 … for conversion and galvanic isolation of analogue signals.

For type code, electrical data, ambient temperature range and temperature class of the modules see Annex 1.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.

The equipment shall be installed in a suitable enclosure that provides a degree of protection of at least IP54 in accordance with IEC 60079-0.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Introduction of type 3202

Annex:

227114800-Annex1_1.pdf

Table 1

Description	Type No.	Temp. Class	Ambient Range	Supply Power/Current	Supply Volt.	Relay
Isolated Repeater	3103, 3103N	T4	-25... +70°C	0.8 W	16.8 … 31.2 V	
Isolated Converter	3104, 3104N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	
Isolated Repeater/Splitter	3108, 3108N	T4	-25... +70°C	0.8 W	16.8 … 31.2 V	
Isolated Converter/Splitter	3109, 3109N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	
Isolated Universal/Converter	3114, 3114N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	
Power Connector Unit	3405	T4	-25... +70°C	2.5 A	16.8 … 31.2 V	
Loop-Powered Isolator	3185A1	T4	-25... +70°C	20 mA	-	
2 Ch Loop-Powered Isolator	3185A2	T4	-25... +70°C	2x20 mA	-	
2-Wire Transmitter Isolator	3186A1	T4	-25... +70°C	20 mA	35	
2 Ch 2-Wire Transmitter Isolator	3186A2	T4	-25... +70°C	2x20 mA	35	
2-Wire Transmitter Isolator	3186B1	T4	-25... +70°C	20 mA	32.50	
2 Ch 2-Wire Current Isolator	3186B2	T4	-25... +70°C	2x20 mA	16.25	
Isolated Converter	3117, 3117N	T4	-25... +70°C	0.8 W	16.8 … 31.2 V	
Isolated Converter/Splitter	3118, 3118N	T4	-25... +70°C	0.8 W	16.8 … 31.2 V	
TC Temperature Converter	3101	T4	-25... +70°C	0.7 W	16.8 … 31.2 V	
Pt100 Temperature Converter	3102	T4	-25... +70°C	0.7 W	16.8 … 31.2 V	
Isolated TC Temperature Converter	3111, 3111N	T4	-25... +70°C	0.7 W	16.8 … 31.2 V	
Isolated Pt100 Temperature Converter	3112, 3112N	T4	-25... +70°C	0.7 W	16.8 … 31.2 V	
HART Temperature Converter	3113, 3113N	T4	-25... +70°C	0.7 W	16.8 … 31.2 V	
Loop Powered HART Temperature Converter	3337	T4	-25... +70°C	8-35V / 20 mA	-	
Loop Powered Isolated Temperature Converter	3331	T4	-25... +70°C	8-35V / 20 mA	-	
Loop Powered Pt100 Temperature Converter	3333	T4	-25... +70°C	8-35V / 20 mA	-	
Universal Frequency Converter	3225A, 3225A-N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	
Universal Frequency Converter	3225B, 3225B-N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	X
Pulse isolator / switch amplifier	3202A1, 3202A1-N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	
Pulse isolator / switch amplifier	3202A2, 3202A2-N	T4	-25... +70°C	1.2 W	16.8 … 31.2 V	X