

CERTIFICATE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: **KEMA 10ATEX0147 X** Issue Number: **12**

(4) Product: **Isolators and Converters of system 3000 Type 3 ...**

(5) Manufacturer: **PRelectronics A/S**

(6) Address: **Lerbakken 10, 8410 Rønede, Denmark**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential test report no. NL/KEM/ExTR10.0077/11.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0 : 2018

EN 60079-7 : 2015 + A1 : 2018

EN 60079-15 : 2019

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

(12) The marking of the product shall include the following:



**II 3 G
II 3 G**

**Ex ec IIC T4 Gc or
Ex ec nC IIC T4 Gc**

Date of certification: 16 May 2023

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 10ATEX0147 X**

Issue No. 12

(15) **Description**

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

For type code, ambient temperature range and temperature class of the modules see Annex 1 to NL/KEM/ExTR10.0077/11.

Electrical data

For electrical data of the supply and the input and output circuits, see Annex 1 to NL/KEM/ExTR10.0077/11.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR10.0077/11.

(17) **Specific conditions of use**

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

The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN IEC 60079-0, taking into account the environmental conditions under which the equipment will be used.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR10.0077/11.

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