

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: **8**

(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. 213708500 issue 8.

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

EN 60079-0 : 2012 + A11 : 2013

EN 60079-15 : 2010

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

Ex nA IIC T4 Gc

Date of certification: 23 December 2016

DEKRA Certification B.V.

R. Schuller
Certification Manager

(13) **SCHEDULE**

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

Issue No. 8

(15) **Description**

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

The type code, the ambient temperature range and the temperature class of the modules shall be taken from **table 1**.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from **table 1**.

Installation instructions

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

(16) **Report Number**

No. 213708500 issue 8.

(17) **Specific conditions of use**

1. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60079-15, taking into account the environmental conditions under which the equipment will be used.
2. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 119 V.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 213708500 issue 8.

(20) **Certificate history**

Issue 1 - 213708500	Initial certificate
Issue 2 - 7	Addition of modules
Issue 8 - 219995800	Update to EN 60079-0 : 2012 + A11 : 2013 and addition of modules

(13) **SCHEDULE**

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

Issue No. 8

Table 1

Description	Type No.	Temp. Class	Ambient Range	Supply Power/Current	Supply Volt.
Isolated Repeater	3103	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V
Isolated Converter	3104	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V
Isolated Repeater/Splitter	3108	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V
Isolated Converter/Splitter	3109	T4	-25... +70°C	1.2 Watt	16.8 ... 31.2 V
Isolated Universal/Converter	3114	T4	-25... +70°C	1.2 Watt	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	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V
Isolated Converter/Splitter	3118	T4	-25... +70°C	0.8 Watt	16.8 ... 31.2 V
TC Temperature Converter	3101	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V
Pt100 Temperature Converter	3102	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V
Isolated TC Temperature Converter	3111	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V
Isolated Pt100 Temperature Converter	3112	T4	-25... +70°C	0.7 Watt	16.8 ... 31.2 V
HART Temperature Converter	3113	T4	-25... +70°C	0.7 Watt	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	-