

CERTIFICATE

(1) **Type Examination**

(2) **Product or Protective System intended for use in potentially explosive atmospheres - UKSI 2016:1107 (as amended) - Schedule 3A, Part 6**

(3) Type Examination Certificate Number: **DEKRA 21UKEX0175X** Issue Number: **0**

(4) Product: **Temperature / mA Converter, Type 9113AA, Type 9113AB, Type 9113BA and Type 9113BB**

(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 Schedule 1 of the Regulations 2016, UKSI 2016:1107 (as amended).

The examination and test results are recorded in confidential report NL/KEM/ExTR09.0053/05.

(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 IEC 60079-15 : 2019

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

(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 ec nC IIC T4 Gc

Date of certification: 9 June 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager

2716:3
Page 1/2

© Integral publication of this certificate and adjoining reports is allowed. This certificate and its schedules may only be reproduced in its entirety and without change.

(13) **SCHEDULE**

(14) **to Type Examination Certificate DEKRA 21UKEX0175X**

Issue No. 0

(15) **Description**

Temperature / mA Converters, Type 9113AA, Type 9113AB, Type 9113BA and Type 9113BB, for rail mounting are 24 V powered 1 channel (Type 9113.A) or 2 channel (Type 9113.B) isolating barriers, interfacing temperature sensors or current sources located in an explosive atmosphere.

The Temperature / mA Converter is supplied via terminals at the front of the module, or via Power Rail Type 9400. Removable display module 4501 can be used for programming of the Converter.

Ambient temperature range -20 °C to +60 °C.

Electrical data

Supply (terminals 31, 32 and rear contacts): $U = 19,2 \dots 31,2 \text{ Vdc}$.

Outputs (terminals 11, 12 and 13, 14): $I = 0 \dots 20 \text{ mA}$ or $4 \dots 20 \text{ mA}$

Status output (terminals 33, 34):

Relay contacts, $U \leq 32 \text{ Vdc}$ or 32 Vac , $I \leq 1 \text{ Adc}$ or $I \leq 0,5 \text{ Aac}$ respectively.

If the Temperature / mA Converter is installed outside the hazardous area, the following data for the relay contacts apply: $U \leq 110 \text{ Vdc}$ or 125 Vac , $I \leq 0,3 \text{ Adc}$ or $I \leq 0,5 \text{ Aac}$ respectively

Installation instructions

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

(16) **Report Number**

NL/KEM/ExTR09.0053/05.

(17) **Specific conditions of use**

The Temperature / mA Converter shall be installed in a controlled environment with suitably reduced pollution, limited to pollution degree 2 or better.

The circuits may only be connected to an overvoltage category I or II power source, as defined in EN 60664-1.

The Temperature / mA Converter shall be installed in an enclosure in type of protection Ex e, providing a degree of protection of at least IP54 according to EN IEC 60079-0. Cable entry devices and blanking elements shall fulfill the same requirements.

Removable Display Module 4501, when connected to the Temperature / mA Converter, may not be damaged and shall be free of dust and moisture.

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

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, compliance with all other requirements is demonstrated in the report.

(19) **Test documentation**

As listed in Report number NL/KEM/ExTR09.0053/05.