

CERTIFICATE - TYPE EXAMINATION

Equipment and protective systems intended for use in potentially explosive atmospheres
Directive 2014/34/EU

Type Examination Certificate Number **PR 14ATEX0101 X**

Issue number: 2

Equipment: **Isolators, Repeaters, Drivers and Converters of system 9000 Type 9xxxAxx**

Manufacturer: **PR electronics A/S, Lerbakken 10, DK-8410 Rønde**

This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

PR electronics certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential test report no. **9000AQA01**.

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

EN 60079-0 : 2012 + A11 : 2013 and EN 60079-15 : 2010

If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

This Type Examination Certificate relates only to the design, examination and tests for the specified equipment and not to the manufacturing process and supply of this equipment.

The marking of the equipment shall include the following:



II 3 G Ex nA nC IIC T4 Gc

This certificate is issued on 30 May 2017 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the official journal of the European Union.

PR electronics A/S

A handwritten signature in black ink that reads 'Stig Lindemann'.

Stig Lindemann
Chief Technical Officer

SCHEDULE

to Type Examination Certificate PR 14ATEX0101 X

Issue No. 2

Description

Isolators and Converters of system 9000 Type 9xxxA for conversion and galvanic isolation of analog signals.

Electrical data

The electrical data of the supply shall be taken from table 1. Input and output data shall be taken from the product manual.

Installation instructions

The manual provided with the equipment shall be followed in detail to assure proper and safe operation.

Special conditions for safe use

1. The devices shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60529, taking into account the environmental conditions under which the equipment will be used.

Essential Health and Safety Requirements

Covered by the standards EN 60079-0 : 2012 + A11 : 2013 and EN 60079-15 : 2010.

Test documentation

As listed in Test Report No. **9000AQA01**.

Table 1

Description	Type no.	Temperature class	Ambient range	Max. required power	Supply voltage
HART-transparent repeater	9106Axx	T4	-20...+60°C	1.9 W (2 channels)	19.2...31.2 V
HART-transparent driver	9107Ax	T4	-20...+60°C	1.8 W (2 channels)	19.2...31.2 V
Temperature / mA converter	9113Ax	T4	-20...+60°C	1.4 W (2 channels)	19.2...31.2 V
Universal converter	9116Ax	T4	-20...+60°C	2.1 W	19.2...31.2 V
Pulse isolator	9202Axx	T4	-20...+60°C	1.9 (2 channels)	19.2...31.2 V
Solenoid / alarm driver	9203Axxx	T4	-20...+60°C	3.1 W (2 channels)	19.2...31.2 V