



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx KEM 09.0052X	Issue No: 3	<u>Certificate history:</u> Issue No. 3 (2016-07-13) Issue No. 2 (2012-07-24) Issue No. 1 (2009-12-15) Issue No. 0 (2009-09-04)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-07-13		
Applicant:	PR Electronics A/S Lerbakken 10 8410 Rønne Denmark		
Equipment:	Temperature / mA Converter, Type 9113AA, Type 9113AB, Type 9113BA and Type 9113BB		
Optional accessory:	<i>Display, Type 4501</i>		
Type of Protection:	Ex n, [Ex ia]		
Marking:	Ex nA nC IIC T4 Gc (Type 9113A. and 9113B.) [Ex ia Ga] IIC/IIB/IIA (Type 9113B.) [Ex ia Da] IIIC (Type 9113B.) [Ex ia Ma] I (Type 9113B.)		

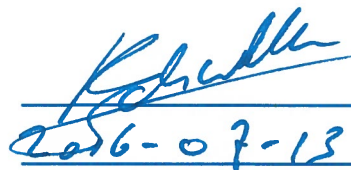
Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)



2016-07-13

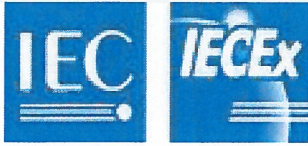
Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
The Netherlands





IECEX Certificate of Conformity

Certificate No: IECEX KEM 09.0052X

Issue No: 3

Date of Issue: 2016-07-13

Page 2 of 4

Manufacturer: **PR Electronics A/S**
Lerbakken 10
8410 Rønne
Denmark

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*This Certificate **does not** indicate compliance with electrical 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/ExTR09.0053/00](#)
[NL/KEM/ExTR09.0053/03](#)

[NL/KEM/ExTR09.0053/01](#)

[NL/KEM/ExTR09.0053/02](#)

Quality Assessment Report:

[NL/DEK/QAR13.0017/02](#)



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Certificate No: IECEx KEM 09.0052X

Issue No: 3

Date of Issue: 2016-07-13

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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.

Electrical data:

Refer to attachment.

CONDITIONS OF CERTIFICATION: YES as shown below:

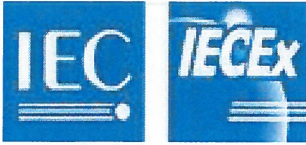
The Temperature / mA Converter shall be installed in a controlled environment with suitably reduced pollution, limited to pollution degree 2 or better.

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

If the Temperature / mA Converter is installed in an explosive atmosphere where equipment protection level Gc is required, the following conditions of certification additionally apply:

The Temperature / mA Converter shall be installed in an enclosure in type of protection Ex n or Ex e, providing a degree of protection of at least IP54. 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.



IECEX Certificate of Conformity

Certificate No: IECEx KEM 09.0052X

Issue No: 3

Date of Issue: 2016-07-13

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- update to IEC 60079-15: 2010
- remove IEC 60079-26
- Addition of Ex nA version '9113A'

Annex:

[IECEX KEM 09.0052X,iss3-Annex1.pdf](#)