

# 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](http://www.iecex.com)

Certificate No.: IECEx KEM 10.0022X Issue No: 2 Certificate history:  
Status: **Current** Page 1 of 4 Issue No. 2 (2016-07-13)  
Date of Issue: **2016-07-13** Issue No. 1 (2012-07-24)  
Applicant: **PR electronics A/S** Issue No. 0 (2010-03-03)  
Lerbakken 10  
8410 Rønne  
Denmark  
Equipment: **Universal Converter, Type 9116A. and Type 9116B.**  
*Optional accessory:* *Display, type 4501*  
Type of Protection: **Ex i, Ex n**  
Marking:  
Ex nA nC IIC T4 Gc (Type 9116A. and 9116B.)  
[Ex ia Ga] IIC/IIB/IIA (Type 9116A.)  
[Ex ia Da] IIIC (Type 9116A.)  
[Ex ia Ma] I (Type 9116A.)

Approved for issue on behalf of the IECEx  
Certification Body:


R. Schuller

Position:

Certification Manager

Signature:  
(for printed version)

Date:

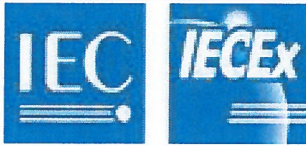
  
2016-07-15

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





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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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-15 : 2010</b> 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:

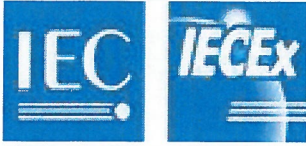
[NL/KEM/ExTR10.0020/00](#)

[NL/KEM/ExTR10.0020/01](#)

[NL/KEM/ExTR10.0020/02](#)

#### Quality Assessment Report:

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



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Universal Converters, Type 9116A1, Type 9116A2, Type 9116B1 and Type 9116B2, for rail mounting are 24 V powered isolating barriers, interfacing temperature sensors and loop supplied transmitters located in an explosive atmosphere. The output to safe area is a 0/4 ... 20 mA signal together with a normally open relay contact. The Universal 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:

Refer to attachment.

### CONDITIONS OF CERTIFICATION: YES as shown below:

The Universal 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 Universal Converter is installed in an explosive atmosphere where equipment protection level Gc is required, the following conditions of certification additionally apply:

The Universal 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 Universal Converter, may not be damaged and shall be free of dust and moisture.



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

- update to IEC60079-15: 2010
- remove IEC60079-26
- Addition of Ex nA version '9202A'

**Annex:**

[IECEx KEM 10.0022X, iss2 -Annex1.pdf](#)