



# 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 08.0025X issue No.:2

Status: **Current**

Date of Issue: **2009-05-25**

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Certificate history:  
Issue No. 2 (2009-5-25)  
Issue No. 1 (2008-11-4)  
Issue No. 0 (2008-8-15)

Applicant: **PR electronics A/S**  
Lerbakken 10  
8410 Rønede  
Denmark

Electrical Apparatus: **Power Control Unit Type 9410**  
Optional accessory: **Power Rail Type 9400**

Type of Protection: **Ex nA nC**

Marking: **Ex nA nC IIC T4 Gc**

Approved for issue on behalf of the IECEx  
Certification Body:


C.G. van Es

Position:

Certification Manager

Signature:  
(for printed version)

Date:

  
2009-05-25

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:

**KEMA Quality B.V.**  
Utrechtseweg 310  
6812 AR Arnhem  
The Netherlands





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

Manufacturing location(s):

**PR electronics**  
Lerbakken 10  
8410 Rønne  
Denmark

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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-15 : 2005-03** Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus  
Edition: 3

*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/ExTR08.0021/00  
NL/KEM/ExTR08.0021/01  
NL/KEM/ExTR08.0021/02

#### Quality Assessment Report:

NL/KEM/QAR07.0004/01



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## Schedule

### EQUIPMENT:

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

Power Control Unit Type 9410 is used to distribute supply voltage to Power Rail Type 9400 on which it is mounted.

The Control Unit is connected to an external power supply and optionally to a back-up power supply.

The Control Unit detects errors from the modules mounted on the rail and provides a collective status alarm via a potential free contact.

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

### Electrical data

Power Supply (terminals 31, 32):  $U = 21.6 \dots 26.6 \text{ Vdc}$ .

Backup Power Supply (terminals 33, 34):  $U = 21.6 \dots 26.6 \text{ Vdc}$ .

Power Rail (rear contacts):  $U = 21.6 \dots 26.6 \text{ Vdc}$  (with transient suppression to 40 V).

Relay contacts (terminals 11, 12, 13):  $U_{\text{max}} = 30 \text{ Vdc}$  or  $32 \text{ Vac}$ ,  $I_{\text{max}} = 2 \text{ A}$ .

If the control Unit is installed outside the hazardous area, the following data for the relay contacts apply:

$U_{\text{max}} = 30 \text{ Vdc}$  or  $250 \text{ Vac}$ ,  $I_{\text{max}} = 2 \text{ A}$

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

If the Control Unit is installed in zone 2, it shall be installed in an enclosure, in conformity with type of protection Ex n or Ex e, providing a degree of protection of at least IP54.



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

### Issue 1:

Solving discrepancies in revision and issue date of the manufacturer's documentation

### Issue 2:

Revision changes of the equipment.

Conformity of the equipment to IEC60079-0: 2007 (EPL's are applied)