



# 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.:  issue No.:

Status:

Date of Issue: **2010-10-04** Page 1 of 3

Applicant: **PR Electronics A/S**  
Lerbakken 10  
8410 Rønde  
Denmark

Electrical Apparatus: **2-Wire Transmitter with HART Protocol, Type 5335D and Type 5336D**  
*Optional accessory:*

Type of Protection: **Ex ia**

Marking: **Ex ia IIC T4 ... T6 Ga**  
**Ex ia IIIC T135 °C ... T80 °C Da**

*Approved for issue on behalf of the IECEx* C.G. van Es  
*Certification Body:*

*Position:* Certification Manager

*Signature:*  
*(for printed version)*

*Date:*

  
\_\_\_\_\_  
2010-10-04

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

**KEMA Quality**  
a DEKRA company



# IECEx Certificate of Conformity

Certificate No.: IECEx KEM 10.0083

Date of Issue: 2010-10-04

Issue No.: 0

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

Manufacturing location(s):

**PR electronics A/S**  
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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-26 : 2006</b> Edition: 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
<b>IEC 61241-11 : 2005</b> Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'ID'

*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/ExTR10.0074/00](#)

Quality Assessment Report:

[NL/KEM/QAR07.0004/02](#)



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## Schedule

### EQUIPMENT:

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

2-Wire Transmitters Type 5335D with HART 5 protocol and Type 5336D with HART 6 protocol, are used to convert temperature measurement signals from a temperature sensor or a mV signal into a 4 ... 20 mA current signal with digital communication (HART).

For further information, refer to the Attachment.

### CONDITIONS OF CERTIFICATION: NO

Attachment 1 to IECEx KEM 10.0083, Issue 00

**General product information:**

The 2-Wire Transmitter Type 5335D with HART 5 protocol and Type 5336D with HART 6 protocol, are used to convert temperature measurement signals from a temperature sensor or a mV signal into a 4 ... 20 mA current signal with digital communication (HART).

The transmitter is only approved for mounting in an enclosure form B according to DIN 43729, or equivalent.

The transmitter is only approved for use in a potentially explosive gas atmosphere, if it is mounted in an enclosure that provides a degree of protection of at least IP20 according to IEC 60529, or higher when the environment requires so.

The transmitter is only approved for use in a potentially explosive dust atmosphere, if the transmitter is mounted in an enclosure that provides a degree of protection of at least IP6X according to IEC 60529, and that is suitable for the application and is correctly installed.

Ambient temperature range: -40 °C to +85 °C for temperature class T4  
-40 °C to +45 °C for temperature class T6

**Electrical data**

Supply and output circuit (terminals 1 and 2):

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, only for connection to a certified intrinsically safe circuit, with the following maximum values:

$U_i = 30 \text{ V}$ ;  $I_i = 120 \text{ mA}$ ;  $P_i = 0.84 \text{ W}$ ;  $C_i = 1 \text{ nF}$ ;  $L_i = 10 \text{ }\mu\text{H}$ ;

Sensor circuit (terminals 3 ... 6):

In type of protection intrinsic safety Ex ia IIC or Ex ia IIIC, with following maximum values:

$U_o = 9.6 \text{ V}$ ;  $I_o = 28 \text{ mA}$ ;  $P_o = 67 \text{ mW}$ ;  $C_o = 3.5 \text{ }\mu\text{F}$ ;  $L_o = 35 \text{ mH}$ ;