

## (1) TYPE EXAMINATION CERTIFICATE

### (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC

(3) Type Examination Certificate Number: **KEMA 10ATEX0006 X** Issue Number: **2**

(4) Equipment: **2-Wire Transmitters with HART Protocol Type 6335A and Type 6336A**

(5) Manufacturer: **PR Electronics A/S**

(6) Address: **Lerbakken 10, 8410 Rønne, Denmark**

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

(8) KEMA Quality B.V. 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. 213583500/1.

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

**EN 60079-0 : 2006**

**EN 60079-11 : 2007**

**EN 60079-15 : 2005**

(10) 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.

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

(12) The marking of the equipment shall include the following:



**II 3 GD**

**Ex nA[nL] IIC T4 ... T6 or**

**II 3 GD**

**Ex nL IIC T4 ... T6 or**

**II 3 GD**

**Ex nA[ic] IIC T4 ... T6 or**

**II 3 GD**

**Ex ic IIC T4 ... T6**

This certificate is issued on July 2, 2010 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.

KEMA Quality B.V.

C.G van Es  
Certification Manager

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(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 10ATEX0006 X**

Issue No. 2

(15) **Description**

The 2-Wire Transmitters Type 6335A with HART 5 protocol and Type 6336A 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).  
Type 633\*A2A is a one channel version and 633\*A2B has two independent channels.

Ambient temperature range: -40 °C to +85 °C for temperature class T4,  
-40 °C to +60 °C for temperature class T6.

**Electrical data**

Supply and output circuits (terminals 11 ... 14, respectively 21 ... 24):  
in type of protection non sparking Ex nA, with  
 $U \leq 35 \text{ Vdc}$ ;  $I = 4 \dots 20 \text{ mA}$ ; or

Supply and output circuits (terminals 11 ... 14, respectively 21 ... 24):  
in type of protection energy limitation Ex nL IIC or intrinsic safety Ex ic IIC, with the following  
maximum values (per circuit):  
 $U_i = 35 \text{ V}$ ;  $C_i = 2 \text{ nF}$ ;  $L_i = 10 \text{ }\mu\text{H}$ .

Sensor circuits, thermocouple, RTD, resistance or mV (terminals 41 ... 44, respectively 51 ... 54):  
in type of protection energy limitation Ex nL IIC or intrinsic safety Ex ic IIC, with the following  
maximum values (per circuit):  
 $U_o = 9,6 \text{ V}$ ;  $I_o = 28 \text{ mA}$ ;  $P_o = 67 \text{ mW}$ ;  $C_o = 3,5 \text{ }\mu\text{F}$ ;  $L_o = 35 \text{ mH}$ .

(16) **Test Report**

KEMA No. 213583500/1.

(17) **Special conditions for safe use**

For use in a potentially explosive atmosphere of flammable gasses, vapours or mists, the transmitter shall be mounted in an enclosure providing a degree of protection of at least IP54 in accordance with EN60529.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213583500/1.