

# (1) **EC-TYPE EXAMINATION CERTIFICATE**

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

(3) EC-Type Examination Certificate Number: **KEMA 09ATEX0147** Issue Number: **1**

(4) Equipment: **2-Wire Programmable Transmitter Type 6333B**

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

(6) Address: **Lerbakken 10, 8410 Rønde, 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., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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 number 212575100/0.

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

**EN 60079-0 : 2006**

**EN 60079-11 : 2007**

**EN 60079-26 : 2007**

(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 EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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



**II 1 G**

**Ex ia IIC T6 ... T5**

This certificate is issued on October 9, 2009 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

Page 1/2



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 09ATEX0147**

Issue No. 1

(15) **Description**

The 2-Wire Programmable Transmitter Type 6333B, for rail mounting, with one or two independent channels is used to convert the temperature measurement signal of a resistive temperature sensor into a 4 ... 20 mA current signal with digital communication.

Ambient temperature range for T6: -40 °C ... +40 °C.

Ambient temperature range for T5: -40 °C ... +60 °C.

**Electrical data**

Supply and output circuits (terminals 11 ... 13, respectively 21 ... 23):  
in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values (per circuit):

$U_i = 30 \text{ V}$ ;  $I_i = 120 \text{ mA}$ ;  $P_i = 0,84 \text{ W}$ ;  $C_i = 1 \text{ nF}$ ;  $L_i = 10 \text{ }\mu\text{H}$

Sensor circuits, resistance (terminals 41 ... 43, respectively 51 ... 53):  
in type of protection intrinsic safety Ex ia IIC, with following maximum values (per circuit):  
 $U_o = 27 \text{ V}$ ;  $I_o = 7 \text{ mA}$ ;  $P_o = 45 \text{ mW}$ ;  $C_o = 90 \text{ nF}$ ;  $L_o = 35 \text{ mH}$ .

The supply/output circuit is galvanically connected with the sensor circuit.

**Installation instructions**

The instructions provided with the equipment shall be followed in detail in order to assure safe operation.

(16) **Test Report**

KEMA No. 212575100/0.

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 212575100/0.