

(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 10ATEX0005 X** Issue Number: **1**

(4) Equipment: **2-wire Programmable Transmitter Type 6331A and 6334A**

(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. 213042300/0.

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

EN 60079-0 : 2006

EN 60079-11 : 2007

EN 60079-15 : 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 G Ex nA[nL] IIC T4 ... T6 or

II 3 G Ex nL IIC T4 ... T6 or

II 3 G Ex nA[ic] IIC T4 ... T6 or

II 3 G Ex ic IIC T4 ... T6

This certificate is issued on January 15, 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 10ATEX0005 X**

Issue No. 1

(15) **Description**

The 2-wire Programmable Transmitter Type 6331A and 6334A for rail mounting, Type 6331A2A and 6334A2A with one or Type 6331A2B and 6334A2B with two independent channels is used to convert the temperature measurement signal of a temperature sensor or a mV signal into a 4 ... 20 mA current signal.

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 ... 13, respectively 21 ... 23):
in type of protection non sparking Ex nA,
 $U \leq 35$ Vdc; $I = 4 \dots 20$ mA; or

Supply and output circuits (terminals 11 ... 13, respectively 21 ... 23):
in type of protection energy limitation Ex nL IIC or intrinsic safety Ex ic IIC, with the following
maximum values (per circuit):
 $U_i = 35$ V; $C_i = 1$ nF; $L_i = 10$ μ 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):
 $U_o = 9,6$ V; $I_o = 25$ mA; $P_o = 60$ mW; $C_o = 2,4$ μ F; $L_o = 33$ mH.

(16) **Test Report**

KEMA No. 213042300/0.

(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 to EN60529.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213042300/0.