

# CERTIFICATE

## (1) EC-Type Examination

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

(3) EC-Type Examination Certificate Number: **KEMA 04ATEX1233** Issue Number: **4**

(4) Equipment: **Profibus connector RS 485-IS, Type 6ES7 972-0DA60-0XA0**

(5) Manufacturer: **Siemens AG**

(6) Address: **Gleiwitzer Strasse 555, DE-90475, Nuremberg, Germany**

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

(8) DEKRA Certification 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 no. NL/DEK/ExTR12.0038/01.

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

**EN 60079-0 : 2012 + A11 : 2013    EN 60079-11 : 2012**

(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 2 G    Ex ib IIC T4 Gb and/or  
I M2    Ex ib I Mb**

This certificate is issued on 12 March 2015 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.

DEKRA Certification B.V.

R. Schuller  
Certification Manager



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX1233**

Issue No. 4

(15) **Description**

The Profibus connector RS 485-IS, Type 6ES7 972-0DA60-0XA0 is for linking, connection and termination of a bus system (e.g. Profibus).

A 200 Ohm resistor that can be switched off, is integrated for termination of the bus system.

The allowed applications are specified at electrical data. The connection to module IM152 is made through terminal module TM-IM. Both are parts of the intrinsically safe Distributed I/O System type ET 200iSP, certified per EC-Type Examination Certificate KEMA 04ATEX1243 and EC-Type Examination Certificate KEMA 04ATEX2242.

The aforementioned combination assures a degree of protection of IP30 in accordance with EN 60529.

Ambient temperature range: -25 °C to +70 °C.

**Electrical data**

Input-/output circuit (D-SUB bus connector):

in type of protection intrinsic safety Ex ib IIC, only for connection to the certified terminal module TM-IM with module IM152 or for connection to certified intrinsically safe equipment, used in and also constructed for a RS485-IS fieldbus system in accordance with the RS 485-IS User and Installation Guideline Version 1.1 (June 2003).

Input circuit (terminal A1/B1):

in type of protection intrinsic safety Ex ib IIC, only for connection to certified intrinsically safe equipment, used in and also constructed for a RS485-IS fieldbus system in accordance with the RS 485-IS User and Installation Guideline Version 1.1 (June 2003).

Output circuit (terminal A2/B2):

in type of protection intrinsic safety Ex ib IIC; the output data conform to the data of the Input circuit.

The connected cables shall not exceed the value  $L/R = 15 \mu\text{H}/\text{Ohm}$  and the effective internal capacitance  $C_i$  and inductance  $L_i$  of the intrinsically safe equipment additionally connected shall be negligibly small.



(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 04ATEX1233**

Issue No. 4

**Installation instruction**

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

(16) **Test Report**

No. NL/DEK/ExTR12.0038/01.

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

None.

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

Assured by compliance with the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/DEK/ExTR12.0038/01.