

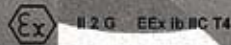


Translation

Original language: German

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

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 04ATEX1233**
- (4) Equipment or protective system: **Profibus connector RS 485-IS, Type 6ES7 972-0DA60-0XA0**
- (5) Manufacturer: **Siemens AG**
- (6) Address: **Werner-von-Siemens-Strasse 50, D-92224 Amberg, Germany**
- (7) This equipment or protective system 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 or protective system 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 report no. 2025756.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
  
**EN 50014 : 1997 + A1, A2                      EN 50020 : 2002**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 or protective system, according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- (12) The marking of the equipment or protective system shall include the following:



Amberg, 12 November 2004  
KEMA Quality B.V.

C.G. van Es  
Certification Manager

\* This Certificate may only be reproduced in its entirety and without any change



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

(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 an ingress protection of IP30 in accordance with EN 60529.

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

**Electrical data**

Input/output circuit..... in type of explosion protection intrinsic safety  
(D-SUB bus connector) EEx 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..... in type of explosion protection intrinsic safety  
(terminal A1/B1) EEx 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..... in type of explosion protection intrinsic safety  
(terminal A2/B2) EEx ib IIC; the output data conform to the data of the Input circuit.

The connected cables shall not exceed the value L/R = 15 µH/Ohm and the effective internal capacitance C<sub>i</sub> and inductance L<sub>i</sub> of the intrinsically safe equipment additionally connected shall be negligibly small.

**Installation instruction**

After the connector is disconnected, and the circuits are still connected to it, precautions shall be taken to ensure that an ingress protection of IP20 in accordance with EN 60529 is guaranteed.

(16) **Report**

KEMA No. 2076923.

**SCHEDULE**

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

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

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

1. EC-Type Examination Certificate KEMA 04ATEX2242  
 EC-Type Examination Certificate KEMA 04ATEX1243

dated

2. Description (12 pages) 13.09.2004

3. Drawing No. A5E00298201B, rev. 02 (4 sheets) 06.10.2004

A5E00298203A, rev. 01 (2 sheets) )  
 A5E00298203, rev. 02 ) 13.09.2004  
 A5E00149490A, rev. 02 (2 sheets) )

**Declaration of EC-Conformity**

We

**Siemens AG**  
**A&D AS**

**Werner-von-Siemens-Straße 50**  
**D-92224 Amberg**

declare under our sole responsibility that the product:

**Profibus connector RS 485-IS,**  
**Type 6ES7 972-0DA60-0XA0**  
(name, type or model)

to which this declaration relates is in conformity with the following standards or normative documents:

**EN 50014:1997+A1,A2, EN 50020:2002**

**EN 61000-6-2 : 2002, EN 61000-6-4 : 2002**  
(title and / or number and date of issue of the standards or other normative documents)

The indicated product is in conformance with the regulation of the following European Directives:

**94/9 EC** As set out in Article 9 of the European Community guideline 94/9/EC of 23 March 1994, the fundamental safety and health requirements for the conception and construction of devices and protection systems for agreed use in hazardous areas are confirmed in accordance with Appendix II of the guideline.

Name of notified body - EC type evaluation certificate No.:

**KEMA 04ATEX1233**  
**KEMA Quality B.V.**  
**Utrechtseweg 310, 6812 AR Arnhem**  
**Postfach 9035, 6800 ET Arnhem, Netherlands**

Name of notified body – Identification number of the production control:

**KEMA Quality B.V.**  
**Utrechtseweg 310, 6812 AR Arnhem**  
**Postfach 9035, 6800 ET Arnhem, Netherlands**

**0344**

**89/336/EEC** Council Directive on the harmonization of the laws of the member states relating to electromagnetic compatibility (EMC Directive).

Amberg, 29. November 2004  
(place and date of issue)

  
 Grosse/A&D AS RD ST PLC  
(name and signature or equivalent marking of authorized person)

  
 Rapp/A&D AS EWA QA  
(name and signature or equivalent marking of authorized person)