

(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 10ATEX0166 X** Issue Number: **2**
(4) Equipment: **SIMATIC NET Components Type 6GK. ... and Type 6ES. ... for the SIMATIC S7-1200 Programmable Controller System**

(5) Manufacturer: **Siemens AG**

(6) Address: **Östliche Rheinbrückenstraße 50, 76187, Karlsruhe, Germany**

(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. 214043800.

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

EN 60079-0 : 2006

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 II T4

This certificate is issued on November 17, 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

Page 1/3



* Integral publication of this certificate and adjoining reports is allowed. This Certificate may only be reproduced in its entirety and without any change.

(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 10ATEX0166 X**

Issue No. 2

(15) **Description**

SIMATIC NET Components Type 6GK. ... and Type 6ES. ... for use in the SIMATIC S7-1200 Programmable Controller System.

The type code, the ambient temperature range and the temperature class of the modules shall be taken from **table 1**.

Electrical data

The electrical data of the supply and the input and output circuits shall be taken from **table 1**.

Installation instructions

The manual provided with the equipment shall be followed in detail to assure proper and safe operation.

(16) **Test Report**

KEMA No. 214043800.

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

1. The modules shall be installed in a suitable enclosure providing a degree of protection of at least IP54 according to EN 60529, taking into account the environmental conditions under which the equipment will be used.
2. When the temperature under rated conditions exceeds 70 °C at the cable or conduit entry point, or 80 °C at the branching point of the conductors, the temperature specification of the selected cable shall be in compliance with the actual measured temperature.
3. Provisions shall be made to prevent the rated voltage from being exceeded by transient disturbances of more than 40%.

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

Covered by the standard listed at (9).

(19) **Test documentation**

As listed in Test Report No. 214043800.

(13) **SCHEDULE**

(14) **to Type Examination Certificate KEMA 10ATEX0166 X**

Issue No. 2

Table 1

Description	Type/MLFB No.	Temp. code	Ambient Range	Technical Data	Supply Volt.
S7-1200 Modules					
CM1242-5 Slave	6GK7242-5DX30-a	T4	0... +55°C	5V / max. 240mA	5V
CM1243-5 Master	6GK7243-5DX30-a	T4	0... +55°C	24V / max. 100mA	24V
CM1242-7 GPRS	6GK7242-7KX30-a	T4	0... +55°C	24V / max. 100mA	24V
TSA IE Basic	6ES7972-0EB00-a	T4	0... +60°C	24V / max. 100mA	24V
TSM ISDN	6ES7972-0MD00-a	T4	0... +60°C	3V / max. 95mA	24V
TSM MODEM	6ES7972-0MM00-a	T4	0... +60°C	3V / max. 95mA	24V
TSM RS232	6ES7972-0MS00-a	T4	0... +60°C	3V / max. 95mA	24V

The Suffix -a denotes any letter or number referring to non-electrical properties as product associates, language, delivery packing, documentation etc.