

# 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: **DEKRA 11ATEX0106** Issue Number: **1**

(4) Equipment: **Intrinsically safe barrier Unit Type 2842**

(5) Manufacturer: **Panasonic Corporation**

(6) Address: **1668, Fujikata, Tsu-shi, Mie-ken 514-8555, Japan**

(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 number 213551700.

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

**EN 60079-0 : 2009**

**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 Ga] IIC**

This certificate is issued on 31 May 2012 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.

C.G. van Es  
Certification Manager

Page 1/2

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



All testing, inspection, auditing and certification activities of the former KEMA Quality are an integral part of the DEKRA Certification Group

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate DEKRA 11ATEX0106**

Issue No. 1

(15) **Description**

The Intrinsically safe barrier Unit Type 2842 provides an intrinsically safe interface for connection to a bus to which up to 20 intrinsically safe detectors (e.g. Type 2840 or 2841) may be connected.

Ambient temperature range -10 °C to +55 °C.

**Electrical data**

Power supply and communication circuits  
(terminals I+1, I+2, I-1, I-2, PT1, PT2, SA1, SA2, SB1, SB2, CS1, CS2):  
 $U_m = 250 \text{ Vac}$

Intrinsically safe circuit (terminals IS-SA, IS-SB):  
in type of protection intrinsic safety Ex ia IIC, with the following maximum values:  
 $U_o = 17,3 \text{ V}$ ;  $I_o = 93,2 \text{ mA}$ ;  $P_o = 509 \text{ mW}$ ;  $C_o = 353 \text{ nF}$ ;  $L_o = 4.1 \text{ mH}$ .

**Installation instructions**

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

(16) **Test Report**

No. 213551700.

(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. 213551700.