

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 11ATEX0106** Issue Number: **4**

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

(5) Manufacturer: **Panasonic Corporation**

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

(7) This product 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 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 Issue 4.

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

EN IEC 60079-0 : 2018

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II (1) G [Ex ia Ga] IIC

Date of certification: 9 July 2021

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) **SCHEDULE**

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

Issue No. 4

(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 product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 213551700 Issue 4.

(17) **Specific conditions of use**

None.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. No. 213551700 Issue 4.

(20) **Certificate history**

Issue 1 - 213551700	Initial certificate
Issue 2 - 420076900	Update to the 2012 versions of the EN 60079-0 and EN 60079-11.
Issue 3 - 420113700	minor technical changes.
Issue 4 - 420280900	assessed per EN IEC 60079-0 : 2018; marking labels updated.