1 # EU-TYPE EXAMINATION CERTIFICATE

2 Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

3 EU-Type Examination Certificate Number: **CSANe 25ATEX1082X** Issue: **2**

4 Equipment: **Wireless Gateway GW900-4G-xx Ex (where xx can be EU or GL), Models WG150160H-02 and WG150160L-02 (for EU) & Models WG150164H-02 and WG150164L-02 (for GL)**

5 Manufacturer: **I-Care srl**

6 Address: Rue Rene Descartes 18
7000 Mons
Belgium

7 This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the 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 the confidential reports listed in item 16.2.

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

EN IEC 60079-0:2018 EN IEC 60079-7:2015+A1:2018 EN 60079-18:2015+A1:2017
EN IEC 60079-31:2024

Where additional criteria beyond those given here have been used, they are listed in item 18 in 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" listed in item 17 of this certificate.

11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. 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 (additional marking is provided in the Schedule as a part of item 15, if applicable):

II 2G
Ex eb mb IIC T4 Gb
-15 °C ≤ Tamb ≤ 60 °C

II 2D
Ex tb mb IIIC T135°C Db
-15 °C ≤ Tamb ≤ 60 °C

Signed: Michelle Halliwell
Title: Senior Director of Operations
Date 16 November 2026

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13 # SCHEDULE

14 **EU-Type Examination Certificate Number:** **CSANe 25ATEX1082X** Issue: **2**

15 **Description:**

The Wireless Gateway WG900-4G-EU Ex is networking hardware for fixed installations designed to receive data via the OpenThread wireless protocol from compatible measurement devices (the certification of which is not covered by this certificate) and transmit it over a cellular network. The device is available in both 100-240 VAC and 24 VDC power configurations. The device is intended for use in explosive atmospheres and is designed with the following ignition protection types:

- Encapsulation (Ex m): Electrical components are encapsulated to prevent the release of sparks or heat that could ignite the surrounding atmosphere.
- Increased Safety (Ex e): The encapsulated block is housed within a Ex e enclosure, providing enhanced ruggedness and electrical insulation.
- Dust ignition protection by enclosure (Ex t): The potentially explosive dust atmosphere is prevented from entering the enclosure and being in direct contact with the internal encapsulated block.

The enclosure is non-metallic and has a cable entry for cable connection. The enclosure provides IP64 protection. The cable connection is made via a suitably certified cable gland. The options for the cable gland are as follows:

Manufacturer	Type	Certificate Numbers	Ex Type	Standards
U.I. Lapp GmbH	SKINTOP KR-M, p/n 54115225 or SKINTOP K-M, p/n 54115220	IBExU08ATEX1063X	Ex eb IIC Ex ta IIIC	EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2009

The models covered are as follows:

Designation	Model number	Ratings
Wireless Gateway GW900-4G-EU Ex	WG150160H-02	100 – 240 Vac, 50/60 Hz, 1.8 W
	WG150160L-02	24 Vdc, 1.8 W
Wireless Gateway GW900-4G-GL Ex	WG150164H-02	100 – 240 Vac, 50/60 Hz, 1.8 W
	WG150164L-02	24 Vdc, 1.8 W

Variation 1 - This variation introduced the following changes:

i. Alternative power supply components (AC & DC)
ii. Alternative 4G cellular module
iii. GL models are introduced

Variation 2 - This variation introduced the following changes:

i. Introduction of 'Ex tb' Group IIIC protection in accordance with EN IEC 60079-31:2024.
ii. Changes to the marking and instructions documentation.

16 **Drawings and documents:**

16.1 **Technical documents:**

Refer to Certificate Annex.

16.2 **Associated reports and certificate history:**

Issue	Date	Report number	Comment
0	19 May 2025	R80218471A	The release of the prime certificate.
1	05 December 2025	R80272250A	The introduction of Variation 1.
2	16 November 2026	R80299495A	The introduction of Variation 2.

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17 **Specific conditions of use** (denoted by "X" after the certificate number):

17.1 Under certain extreme circumstances, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition-capable level of electrostatic charge. Therefore, the equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In particular, in Group III installations, the equipment shall not be installed in a location where it will be subjected to fast moving particles. In addition, in Group II installations, the equipment shall only be cleaned with a damp cloth.

17.2 This equipment shall be installed where the risk of damage to the equipment due to impact is considered to be low.

17.3 The prospective short-circuit current of the supply shall not exceed 1500 A for AC supply and 100 A for DC supply.

18 **Essential health and safety requirements of Annex II** (EHSRs):

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.

19.1 **Conditions of manufacture:**

19.1.1 In accordance with EN 60079-18:2015+A1:2017 clause 9.1, each manufactured item shall be subjected to a visual inspection. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion or softening.

19.1.2 The equipment incorporates a previously certified cable gland. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with this device. The manufacturer shall inform CSA of any modifications to the device that may impinge upon the explosion safety design of the equipment.

PRODUCTS RvA C 652

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Certificate Annexe

Document History

Issue – 0

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
PC25_MED_AG41A_001	1 to 5	1	28 Apr 25	WG150160H/L-02 assembly drawing
PC25_MED_AG41A_003	1 to 4	0	28 Apr 25	WG15016xH/L-02 potting container
PC24_BED_AG10_001	1 to 3	1	28 Apr 25	WG15016xH/L-02 components clearances
PC24_BQA_AG10_001	1 to 18	1.31	28 Apr 25	Casting Compound Procedure
PC24_EFA_AG02_001	1 of 1	3	28 Apr 25	Block Diagram Safety Concept
PC24_ETB_AG41A_001	1 to 4	1	30 Apr 25	PCB Layout
PC24_ETB_AG10X_001	1 to 4	13-2	28 Apr 25	Schematic
PC24_BPC_AG02_001 EX	1 to 2	1.36 EX	08 May 25	Assembly part list
PC24_BDB_AG02_003	1 to 14	1.65 EX	28 Apr 25	List of safety critical components
PC24_EPB_AG41X_002	1 to 4	r13-2 EU Ex	28 Apr 25	BOM of Gateway PCBA – EU module
PC24_BBA_AG02_001	1 of 1	3.1 Ex	28 Apr 25	Overview of differences Wireless Gateway GW900-4G-xx
PC24_BDB_AG02_002	1 to 14	2.1	08 May 25	Marking label

Issue – 1

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
PC24_BDB_AG02_003	1 to 17	1.83 EX (2025-08-26)	12 Nov 25	List of Safety Critical Components
PC24_BPC_AG02_001	1 to 2	1.51 EX (2025-10-02)	12 Nov 25	Assembly Part List (BOM)
PC24_BDB_AG02_002	1 to 20	2.8 (2025-11-10)	12 Nov 25	Marking
PC24_EPB_AG61X_002	1 to 4	r13-2 GL Ex (2025-07-14)	12 Nov 25	BOM_PCBA_Gateway (GL variants)
PC24_EPB_AG41X_002	1 to 3	r13-2 GL Ex (2025-07-14)	12 Nov 25	BOM of Gateway PCBA – EU module
PC24_EPB_AG51X_002	1 to 3	r13-2 US (2025-07-14)	12 Nov 25	PCBA – Gateway ATEX with US module

Issue – 2

Documents Introduced or Revised

Drawing	Sheets	Rev.	Date (Stamp)	Title
PC26_BDB_AG02_002	1 to 14	0.3	02 Nov 26	ATEX – IECEx - Marking

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