



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 25ATEX1082X** Issue: **0**

4 Equipment: **Wireless Gateway GW900-4G-EU Ex, Models WG150160H-02 and WG150160L-02**

5 Applicant: **I-Care srl**

6 Address: **Rue Rene Descartes 18
7000 Mons
Belgium**

7 This equipment 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 number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment 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 Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

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

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G

Ex eb mb IIC T4 Gb

-15 °C ≤ Tamb ≤ 60 °C

Signed:

M Halliwell

Title: Senior Director of Operations



Project Number 80218474

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

CSANe 25ATEX1082X
Issue 0

13 DESCRIPTION OF EQUIPMENT

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.

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	EN 60079-0:2012 EN 60079-7:2007

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

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	19 May 2025	R80218471A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 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 addition, the equipment shall only be cleaned with a damp cloth.
- 15.2 This equipment shall be installed where the risk of damage to the equipment due to impact is considered to be low.
- 15.3 The prospective short circuit current shall be less than 1500 A for AC supply and 100 A for DC supply.

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16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 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.
- 17.4 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.

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Certificate Annexe



Certificate Number: CSANe 25ATEX1082X

Equipment: Wireless Gateway GW900-4G-EU Ex, Models WG150160H-02 and WG150160L-02

Applicant: I-Care srl

Issue 0

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	8 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	8 May 25	Marking label

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