IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx CSA 25.0040X**	Page 1 of 5	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2025-12-05) Issue 0 (2025-05-19)
Date of Issue:	2026-11-16		
Applicant:	**I-Care srl** Rue Rene Descartes 18 7000 Mons **Belgium**		
Equipment:	**Wireless Gateway GW900-4G-xx Ex (where xx can be EU or US or GL), Models WG150160H-02 and WG150160L-02 (for EU), Models WG150161H-02 and WG150161L-02 (for US) & Models WG150164H-02, WG150164L-02 (for GL)**		
Optional accessory:			
Type of Protection:	**Increased Safety 'e', Encapsulation 'm' & Dust protection by enclosure "t"**		
Marking:	Ex eb mb IIC T4 Gb Ex tb mb IIIC T135°C Db -15 ˚C ≤ Tamb ≤ 60 ˚C		

Approved for issue on behalf of the IECEx Certification Body: **Dave Magee**

Position: **Senior Director of Operations**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W IR3
Canada

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Manufacturer: **I-Care srl**
Rue Rene Descartes 18
7000 Mons
Belgium

Manufacturing locations: **I-Care srl**
Bd. Initialis 5
7000 Mons
Belgium

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

CA/CSA/ExTR25.0020/00 CA/CSA/ExTR25.0020/01 CA/CSA/ExTR25.0020/02

Quality Assessment Report:

DE/TUR/QAR16.0004/08

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Wireless Gateway WG900-4G-xx 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.

See annexe for more information

SPECIFIC CONDITIONS OF USE: YES as shown below:

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.
2. This equipment shall be installed where the risk of damage to the equipment due to impact is considered to be low.
3. The prospective short-circuit current of the supply shall not exceed 1500 A for AC supply and 100 A for DC supply.

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Equipment (continued):

Conditions of Manufacture

1. In accordance with IEC 60079-18:2017 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.
2. The equipment incorporates previously certified cable glands. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices. The manufacturer shall inform CSA of any modifications to the devices that may impinge upon the explosion safety design of the equipment.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1 – this Issue introduced the following changes:

1. Alternative power supply components (AC & DC)
2. Alternative 4G cellular module
3. GL models are introduced

Issue 2 – this Issue introduced the following changes:

1. Introduction of 'Ex tb' Group IIIC protection in accordance with IEC 60079-31:2022.
2. Changes to the marking and instructions documentation.

Annex:

IECEx CSA 25.0040X Iss 2 Annexe_1.pdf

Annexe to: **IECEx CSA 25.0040X Issue 2**

Applicant: **I-Care srl**

Apparatus: **Wireless Gateway GW900-4G-xx Ex (where xx can be EU or US or GL), Models WG150160H-02 and WG150160L-02 (for EU), Models WG150161H-02 and WG150161L-02 (for US) & Models WG150164H-02, WG150164L-02 (for GL)**

EQUIPMENT (continued)

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	IECEx IBE 13.0027X	Ex eb IIC Ex ta IIIC	IEC 60079-0:2011 IEC 60079-7:2006 IEC 60079-31:2008
PFLITSCH GmbH & Co. KG	LevelEx series, Lex 220ms HTS	IECEx PTB 18.0001X	Ex eb IIC Ex ta IIIC	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013
Pepperl+Fuchs SE	CG.NA.M20S.BN.C.16.K01	IECEx IMQ 14.0004X	Ex eb IIC Ex tb IIIC	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013

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-US Ex	WG150161H-02	100 – 240 Vac, 50/60 Hz, 1.8 W
	WG150161L-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

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