

# Wireless Gateway GW900-4G

## Extract of User Manual

### –US/CAN radio only

### (EN)

**<PC24\_BDC\_AG02\_001> Version 1.04 radio**

Date: 2025-05-19

**Note: Purpose of this document**

**This document is an excerpt of the radio relevant information in the User Manual. The final "User Manual" for end users combines the information below with additional information based on non-Ex requirements or additional use information.**

**Heading numbering and levels do not match the final User Manual.**

## Manufacturer

I-care SRL  
Rue René Descartes 18  
7000 Mons  
Belgium

### **Important Notice**

**For your safety, it is imperative that you read and abide  
by all the instructions given in this user manual.**

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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## A. Introduction

This document is intended for user information of the device Wireless Gateway GW900-4G with derived models for North America (USA/Canada) including special models intended for the use in explosive hazardous environments<sup>1</sup> (Ex) with model numbers WG15016xy-02 (where y is a digit used only for Ex devices → detailed overview in the table below). This document contains instructions and safety information including installation instructions.

Read this manual carefully before using the device. Keep it for further reference.

This document is relevant for the following products with the following model numbers only:

Commercial Product Name:	Wireless Gateway GW900-4G-US
	Wireless Gateway GW900-4G-US Ex
Mod#	WG150161-02
	WG150161H-02
	WG150161L-02

<sup>1</sup> Further common terms are Explosive Atmospheres or Hazardous Areas.

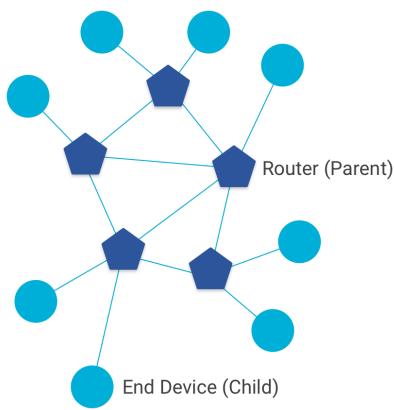
While non-Ex models offer both AC and DC input, Ex models (identified by an additional letter in the model number) are available in either AC or DC only. Here is the overview of the commercial names, the model numbers and the key features:

Ex compliance	Non-Ex	IECEx/ATEX/HazLoc (type of protection: Increased Safety and Encapsulation Ex eb mb)	
<b>Input voltage</b> <b>Cellular radio module</b>	100 - 240 VAC / 24 VDC	100 - 240 V AC only	24 V DC only
for North America	Wireless Gateway GW900-4G-US WG150161-02	Wireless Gateway GW900-4G-US Ex WG150161H-02	Wireless Gateway GW900-4G-US Ex WG150161L-02

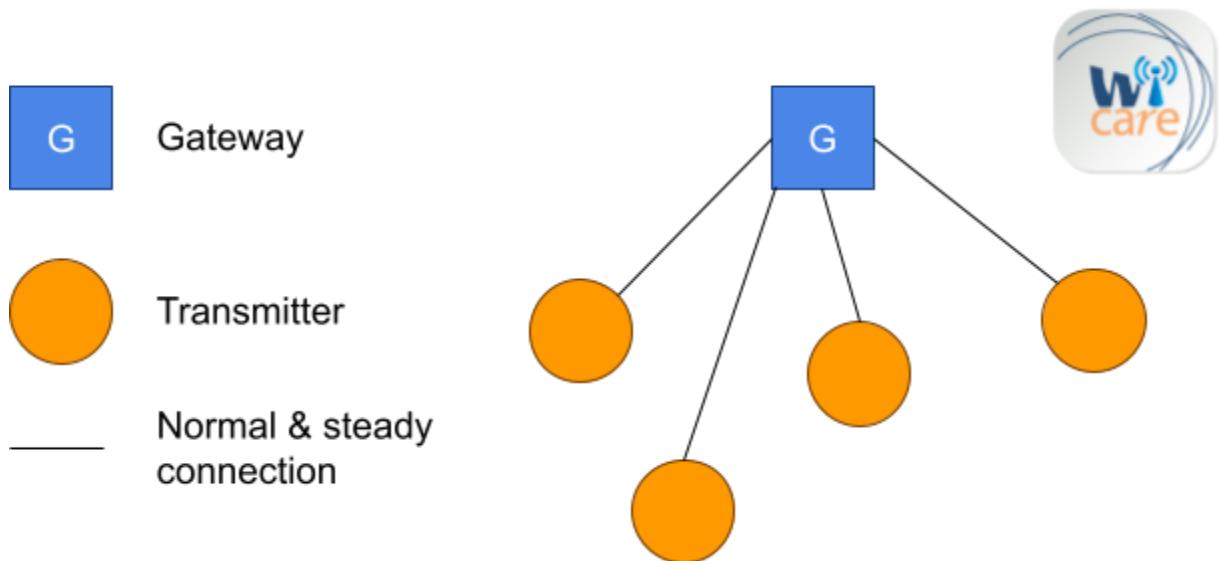
### a. This device “Wireless Gateway GW900-4G”



- This device is the device to receive OpenThread wireless data from the Transmitters which are separate devices within a *Wi-care system*.
- This device uses cellular network to forward received data to I-care’s cloud (I-see™).
- This device manages the OpenThread network and sends tasks each 15 min to typically around 10 Transmitters. Connection is designed to be stable up to an amount of maximum 50 Transmitters connected to a Gateway.
- Gateways can build a mesh network to increase the range or network quality.



- This device is powered by 100-240 VAC 50/60 Hz or 24 VDC.



## B. *Specifications and environmental constraints*

Specifications		US Non-Ex	US Ex AC only	US Ex DC only
		WG150161-02	WG150161H-02	WG150161L-02
Power Supply voltage	AC input	100–240 VAC 50/60Hz	–	–
	DC input	24 VDC	–	24 VDC
Power consumption (max. rated)	AC input	1,8 W		–
	DC input	1,8 W	–	1,8 W
Wireless protocol		Secure Open Thread (IEEE 802.15.4) / LTE cat1		
Broadcast Range		100 m (line of sight)	> 30 m (line of sight)	
Physical interfaces		Push-in Terminal block for fixed power installation	–	

## C. Compliance

### a. Radio Compliance for WG150161y-02

**IMPORTANT NOTE:** This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

#### i. Federal Communications Commission (FCC)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. (FCC Part 15.21)

Supplier's Declaration of Conformity – 47 CFR § 2.1077 Compliance Information

**Unique Identifier:** WG150161y-02 (with y = [blank], H or L)

**Responsible Party – U.S. Contact Information**

I-care Reliability Inc.  
 11200 Westheimer Rd., Ste 625 -  
 Houston, TX  
 77042  
 +1 281-940-5383, <https://www.icareweb.com>

**FCC Compliance Statement**

This device complies with Part 15 of the FCC Rules.

The radio transmitters in this device meet FCC certification requirements.

The other parts of this device are the non-radio digital device and peripheral parts. These parts meet the requirements specified in FCC Rule Part 15B.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### ii. Innovation, Science and Economic Development Canada (ISED) Compliance (RSS GEN Issue 5)

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

## ***D. Manufacturer and Authorized Distributors***

Please contact one of the following companies for authorized support and technical assistance on the device.

### **a. Manufacturer**

#### **I-care SRL**

Rue René Descartes 18

7000 Mons

Belgium

### **b. Legal Representatives**

#### **i. USA**

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