

GW-201 GATEWAY

Operation and Installation Manual

1 | Product Review

The NextCentury GW-201 (Gateway) is an easy to use, full-feature device developed to collect, store, and deliver meter usage and status data from system components. The Gateway comes equipped with a 7-inch touch LCD screen that displays network status, system status, alerts, and more. The Gateway is programmed with self-healing technologies (power reset, cloud server reset) and easy to understand LED light indicators. The Gateway includes an integrated NextCentury radio.

1.1 - GW-201 Hardware

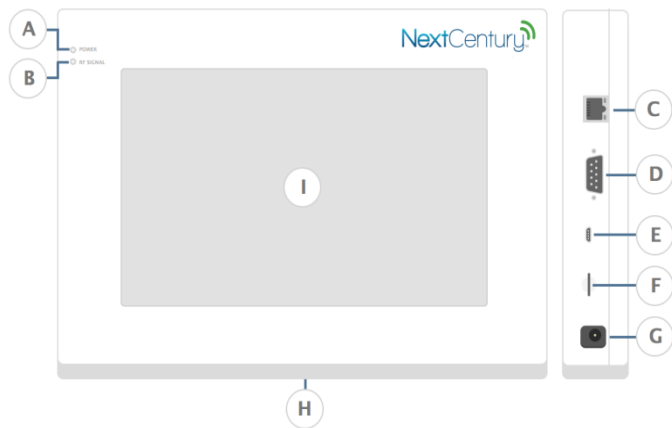


Figure 1 GW-201 Hardware

- | | | |
|-------------------------------------|------------------------------|------------------------|
| A Power Indicator | B RF Signal Indicator | C Ethernet Port |
| D 3 rd Party Port | E USB Port | F SD Card Port |
| G 12 Volt Power | H Mounting Plate | I LCD Screen |

1.2 - Packaging Content

- 1x NextCentury GW-201 Gateway
- 1x NextCentury 12V 1A power supply
- 1x NextCentury mounting plate
- 1x Package of fasteners
- 1x 5' Ethernet cable

2 | Specifications

2.1 - Dimensions:

- 223.2mm x 164.4mm x 36.8mm
- 8.8in x 6.5in x 1.5in

2.2 - Operation Environment:

- -28C to 60C
- -20F to 140F
- Up to 90% relative humidity (non-condensing)

2.3 - Power Requirements:

- 120/240 VAC wall transformer (included)

Note: If the Gateway is installed outside where it is directly exposed to the elements, the recommendation is to house it in an appropriate NEMA class plastic enclosure. (See *NextCentury NEMA Enclosures* sheet.)

2.4 - Certification:

- FCC: Contains 2A B8I-RE-40-214
- FCC: Contains MCQ50M1782
- IC: Contains 20949-RE40214
- IC: Contains 1846A-50M1782

3 | Installation and Setup

3.1 - Mount the Gateway

Each Gateway comes with a mounting plate and can be installed using the mounting screws and anchors to secure the Mounting Plate (Figure 1-H) to the wall.

Note: To maintain stability, a minimum of two screws and anchors must be used on the mounting plate (Figure 1-H). Gateway should be secured to the wall using the provided mounting screws and anchors (Figure 2-A), and should not be mounted with 3M Tape alone.

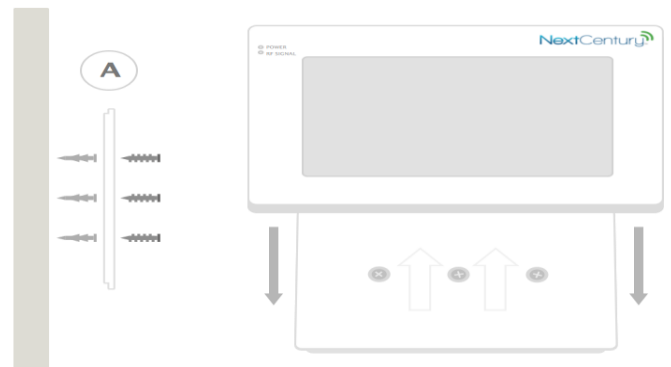


Figure 2 Mount the Gateway

A Mounting Screws and Anchor

3.2 - Connect Gateway to NextCentury Cloud

Connecting to the *NextCentury Cloud* via Ethernet:

1. Plug Ethernet cable into the Ethernet port (Figure 3-A).
2. Plug Power Supply into the 12 Volt Power (Figure 3-B).

Note: The Gateway does not require a static IP address. It can be placed on either a WAN or LAN network and use a DHCP address.

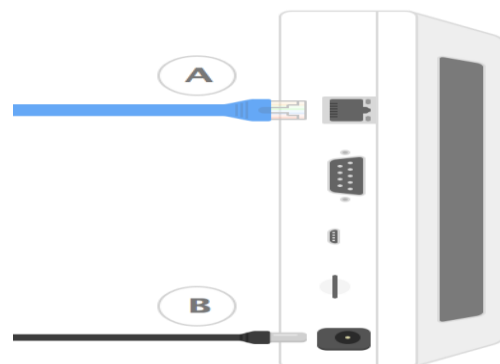


Figure 3 Connect Gateway to *NextCentury Cloud*

A Ethernet Port **B** Power Supply Port

Note: On most networks the Gateway will automatically connect to the *NextCentury Cloud*. If the Gateway does not connect, please be sure that the network does not require proxy login information and that TCP traffic is not blocked.

Connecting to the *NextCentury Cloud* via WiFi:

1. Enter the Network Settings page by pressing the settings icon and then the Network Settings icon.
2. Press the WiFi settings icon.
3. Press the WiFi Network icon.
4. Choose the preferred WiFi network.
5. Press the Connect icon.
6. Enter the Password (if necessary) and press done.

The Gateway will connect to the WiFi network and then to the *NextCentury Cloud*.

4 | Gateway LED Operation

The GW-201 Gateway comes equipped with two LED lights on the front panel. Figure 4 and Figure 5 show what the different LED patterns indicate.

Power Indicator

LED Pattern	Descipiton
Solid Red	Loss of Power
Blinking Red	Gateway is Reseting (Self-Healing)
Solid Green	Powered On but not connected to <i>NextCentury Cloud</i>
Solid Blue	Powered On and connected to <i>NextCentury Cloud</i>
Blinking Blue	Powered On and Property Programming being performed from website

Figure 4 Power Indicator LED Table

RF Indicator

LED Pattern	Descipiton
1x Fast Red Blinks	Sending/Receiving 3 rd Party Message
1x Fast Green Blinks	Sending/Receiving RE-201 Repeater or TR-201 Transceiver Message

Figure 5 RF Indicator LED Table

4.1 - Power Indicator

- When the Gateway is plugged in, the Power Indicator (Figure 1-A) will be solid green indicating the device is powered on but not connected with the *NextCentury Cloud*. A solid blue Power Indicator (Figure 1-A) signifies the device is powered on and has connected with the *NextCentury Cloud*. The Power Indicator will turn red if a loss of power occurs. If the Gateway is being reset, the Power Indicator (Figure1 –A) will blink red. A blinking blue Power Indicator (Figure 1-A) shows power is on and the property programming is being performed from the website.

4.2 - RF Signal Indicator

- When the Gateway is sending or receiving messages from a 3rd Party cable, the RF Indicator (Figure 1-B) will briefly flash *red*. When indicating that the Gateway is sending or receiving messages to and from an RE-201 Repeater or a TR-201 Transceiver, the RF Indicator (Figure 1-B) will briefly flash *green*.

5 | Television and Radio Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

6 | FCC Part 15 and Industry Canada Compliance

This device complies with part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This portable equipment with its antenna complies with FCC's and IC's RF radiation exposure limits set forth for an uncontrolled environment. Users are advised to maintain a separation distance of 20cm (this will be generated from our MPE report) to comply with FCC and IC RF exposure limits.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement portable avec son antenne se conforme aux limites d'exposition aux radiations RF du FCC et du IC, énoncées pour un environnement non contrôlé. Les utilisateurs sont conseillé de maintenir une distance de séparation de 20 cm (ceci sera généré depuis notre rapport de MPE) pour se conformer aux limites d'exposition RF du FCC et du IC.

7 | Warranty/Disclaimer

Scope of Warranty

NextCentury warrants that all communication equipment manufactured by NextCentury will be free from defects in materials and workmanship under normal use and in accordance with NextCentury's documented installation and operating procedures for a period of three (3) years from the date of manufacture.

Products not manufactured by NextCentury including without limitation, accessories, attachments, or batteries used in conjunction with NextCentury equipment are warranted, if at all, only by the original manufacturer. NextCentury's warranties do not include replacement of batteries used to power NextCentury products.

Limits of Liability

This warranty only applies to Read Management System components produced by NextCentury, and does not cover any products which have been damaged by misconduct, negligence, vandalism, acts of God, excessive operating conditions, or unauthorized attachments or modifications. This warranty will be nullified and voided if products are placed in non-recommended installation application/fashion, or are converted, altered, or treated by other than NextCentury recommended procedures and instructions, or are read by equipment not approved by NextCentury.

NextCentury's liability and customer's exclusive remedy under this warranty is expressly limited to repair or replacement of the product at NextCentury's option, and is conditioned upon the customer returning the product(s) to the location designated by NextCentury within the warranty periods or limits stated herein and pre-paying the freight costs both to and from specified location. In no event shall NextCentury be liable for costs or expenses associated with the removal or installation of products under this warranty.

NextCentury shall have no liability or responsibility to the purchaser or any third party for any loss, cost, expense, damage, or liability, whether direct or indirect, or for special, incidental, indirect, or consequential damages of any kind, regardless of whether such liability is based on breach of contract, tort, strict liability, breach of warranties, or otherwise, and even if advised of the likelihood of such damages. Incidental and consequential damages include, but are not limited to, lost revenue, loss of profits, data, business, or goodwill. In addition, damages resulting from negligence on the part of the customer including, but not limited to, the care and maintenance of NextCentury products, or damages resulting from negligence regarding periodic testing of the product's performance, are not covered under this guarantee.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY NEXTCENTURY MAY VOID THIS WARRANTY AND THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THE FOREGOING WARRANTY IS THE SOLE AND EXCLUSIVE REMEDY AVAILABLE TO THE PURCHASER AND IS IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, OR REMEDIES, WHETHER WRITTEN OR

ORAL, EXPRESSED, OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ALL OF WHICH NEXTCENTURY HEREBY EXPRESSLY DISCLAIMS.

8 | NextCentury Submetering System

Contact Information

If there are any questions or concerns related to these guidelines, please contact NextCentury Submetering Systems Product Support:

- Phone: (844) 538.8203 opt. 2
- Email: support@nextcenturymeters.com