



# GATEWAY USER MANUAL

Automated Data Transfer for 24/7 Remote Monitoring

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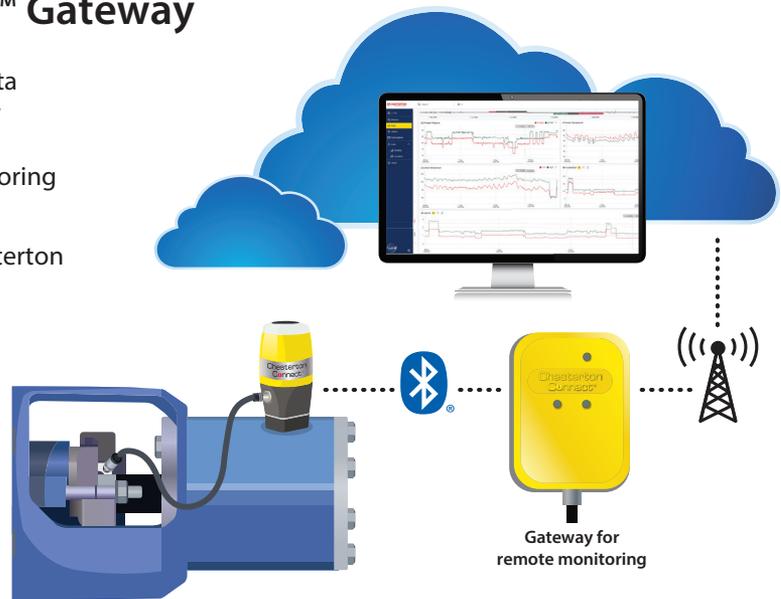
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## About the Chesterton Connect™ Gateway

Chesterton Connect™ Gateway enables automatic data transfer for pumps and sealing systems monitored by Chesterton Connect sensors. Utilizing the Chesterton Connect Cloud, the Gateway facilitates remote monitoring of equipment to improve operations.

Engineered for quick installation and setup, the Chesterton Connect Gateway provides multiple options for easy installation in an outdoor environment, allowing you to monitor equipment in hard-to-reach areas. The Gateway's plug-and-play design automatically connects to the nearest cellular network, eliminating the need for complex wiring diagrams or configuration requirements and facilitating scalability and data reliability.



## Chesterton Connect™ App

The Chesterton Connect App is available as a free download; look for this symbol:



## Chesterton Connect™ Cloud

The Chesterton Connect Cloud is a web dashboard ([Connect.Chesterton.com](http://Connect.Chesterton.com)) that can be accessed through a computer with internet and can operate in the following standard browsers:

- *Google Chrome*
- *Mozilla Firefox*
- *Microsoft Edge*
- *Apple Safari*



## Warnings and Cautions

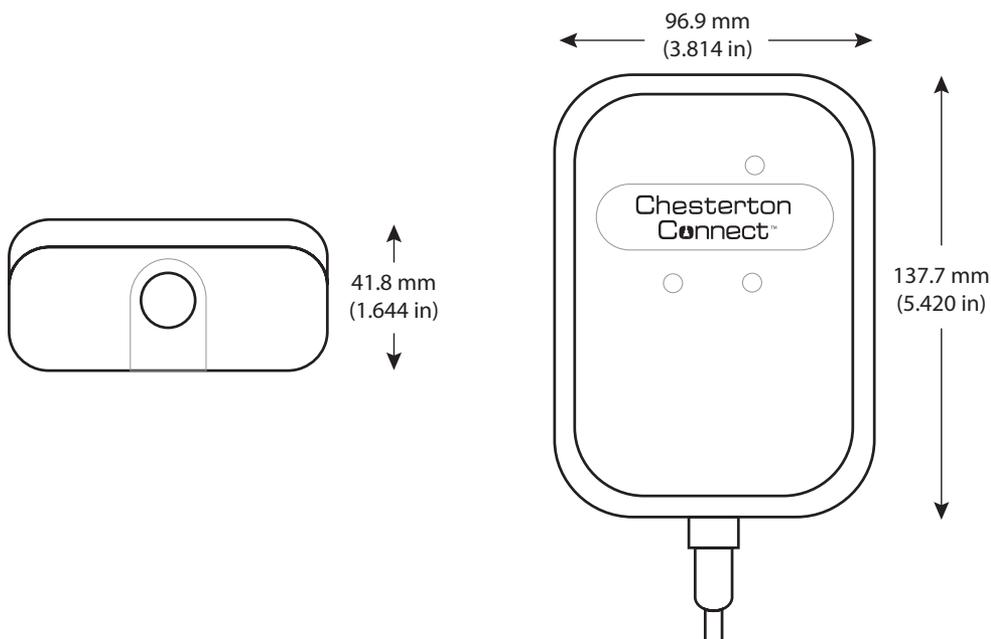
- Product is intended for use in industrial or commercial environments.
- Product is not certified as intrinsically safe.
- This device is not intended to be used in any critical applications where failure to transmit or receive data could result in property damage, loss or personal injury of any kind (including death) to the user or any other party.
- Disable the product if it is damaged or operates incorrectly.
- Make sure the product is used as specified and within its advertised operating limits.
- Follow all nearby PPE and equipment safety requirements when installing or using the product and its components.
- This product contains an AC to DC switching power converter, providing a single constant 5V output delivering up to 2.0A. Failure to use the included power supply will void the warranty and may temporarily or permanently damage the product.

## Strong Magnet!



- Can be harmful to pacemaker wearers and others with medical implants.
- Keep tools and other metal objects away.
- To avoid damage, keep magnetic media such as computer disks, credit cards, and tapes away. Failure to follow these warnings can result in serious injuries.

## Product Dimensions



# Specifications

## OPERATING PARAMETERS

- **Temperature Operating range:** -40°C – 80°C (-40°F – 176°F)
- **Power Input:** DC 5V 2A (an adapter 100v/220V AC is provided)
- **Wireless:** Bluetooth® 5.0 Single-mode Category LTE M wireless cellular network
- **Enclosure:** Rating IP66 (Power adapter is not outdoors rated)
- **Sensor Range:** Up to 182 m (600 ft)
- **Sensor Support:** Up to 50 Chesterton Connect devices

*Parameters are based on laboratory testing.*

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## Statements

Chesterton Connect™ Gateway  
Model: 415198  
Contains FCC ID: SQG-PINNACLE1  
Contains IC: 3147A-PINNACLE1

### FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. 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. No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment. This device has been designed and complies with the safety requirements for portable RF exposure in accordance with FCC rule part 2.1093 and KDB 447498 D01.

### RSS Compliance Statement

This device complies with Industry Canada's license-exempt RSSs. 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 device has been designed and complies with the safety requirement for RF exposure in accordance with RSS-102, issue 5 for portable conditions.

**Country of Origin:** Designed in the USA.  
Manufactured in China.

# Gateway Installation

## GATEWAY MOUNTING

1. Mount the Chesterton Connect Gateway using the magnetic base, screws, or supplied cable tie. Mount securely in upright position ensuring the power connector is facing down. For proper performance the mounting area must be free of metal obstructions within 4"/10cms above, below, or beside the device. For best performance the device should be mounted forward facing, upright, and in line of sight, with minimal obstructions, to the desired sensors.

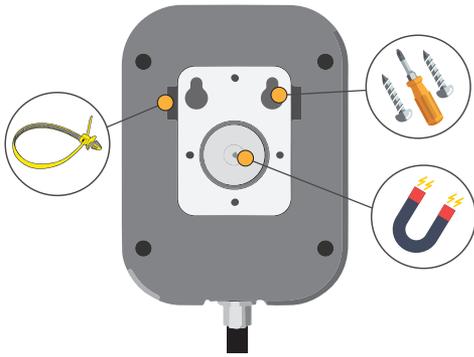


Figure 1

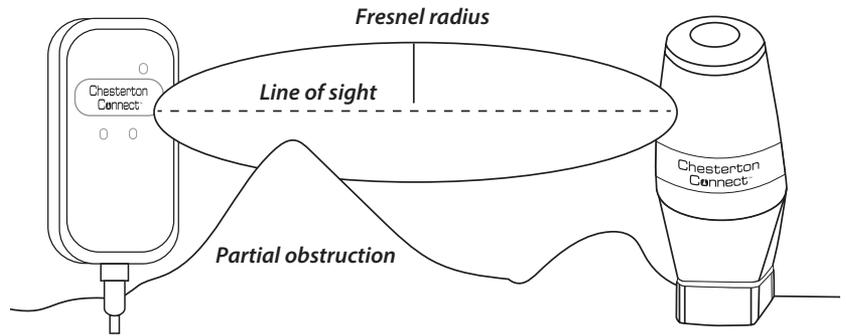


Figure 2

*Note: Place the Chesterton Connect Gateway in view of desired sensors with minimal obstruction for best performance.*

2. Connect the AC power supply\* into a standard 120V or 240V outlet. Plug the M12 connector into the Chesterton Connect Gateway.



| STATUS             | LIGHT PATTERN        | DESCRIPTION                     |
|--------------------|----------------------|---------------------------------|
| Startup/Activation | ● ● ● LEDs turn on   | Power on/off sequence           |
|                    | ● ● ● Constant blink | Ready for setup                 |
| Normal Operation   | ● Solid              | Gateway connected to mobile app |
|                    | ● 1 Blink            | Sensor data received            |
|                    | ● 1 Blink            | Data sent to the cloud          |
| Error Code         | ● Constant blink     | Searching for networks          |
|                    | ● 1 Blink            | Unable to transmit data         |

*\*Note: The power supply is not outdoors rated. Users must make adequate arrangements if ingress protection is required.*

# Gateway Installation

## GATEWAY REGISTRATION

1. Open the Chesterton Connect™ App and log in to the Chesterton Connect™ Cloud.\*\*\*
2. Select the *Gateway* tab (See figure 4)
3. Select the gateway to be added to the cloud. The device should have a yellow left border indicating that it is not registered. If multiple Gateways are present you may use the identify function to locate it, this will turn on the Blue LED for 10 seconds.
4. Select *Cloud Sync* (See figure 6)
5. Enter a device name (optional)

*Note: Mobile device must have Bluetooth® on. Chesterton Connect App must be within 20m (65ft) Bluetooth® range from the Gateway to perform the registration process.*

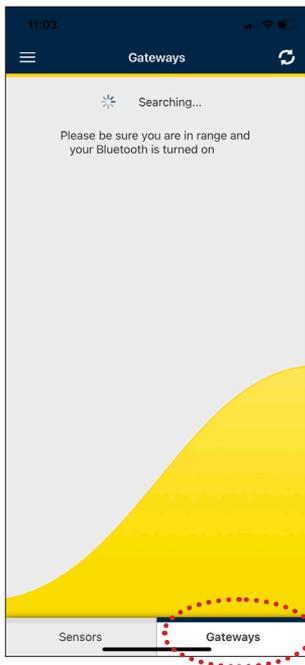


Figure 4

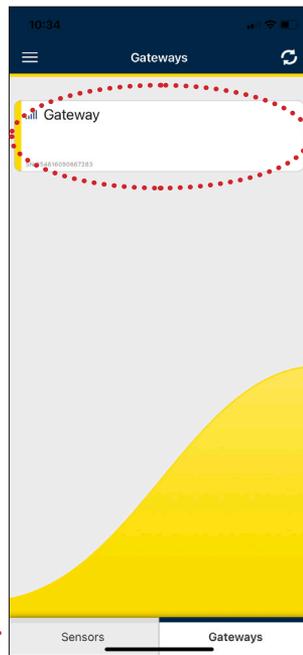


Figure 5

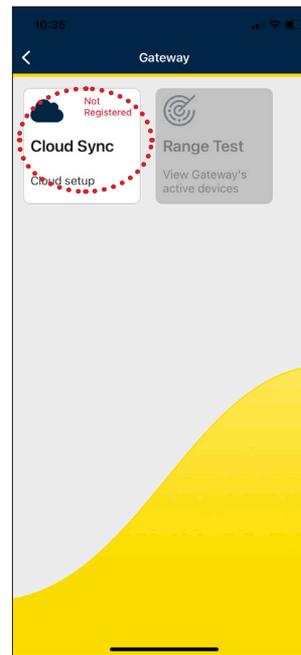


Figure 6

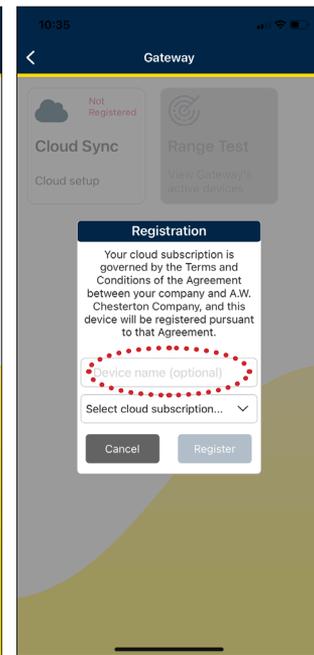


Figure 7

\*\*\*Note: Please consult the Chesterton Connect Mobile App Guide for app operation — [https://chestertondocs.chesterton.com/Rotating/EN350969\\_Chesterton\\_Connect\\_Mobile\\_App\\_Guide.pdf](https://chestertondocs.chesterton.com/Rotating/EN350969_Chesterton_Connect_Mobile_App_Guide.pdf)

# Gateway Installation

## GATEWAY REGISTRATION CONTINUED

- Choose the desired cloud account from the drop down menu (See figure 8).
- Select *Register*. The Gateway will turn on its Blue LED during the registration process.

*Note: The Gateway will automatically connect to the nearest cellular network. This connection can take up to 10 minutes depending on the local cellular signal strength.*

- The gateway will automatically go through the registration process (Figures 10 and 11). After completion select *Ok*.

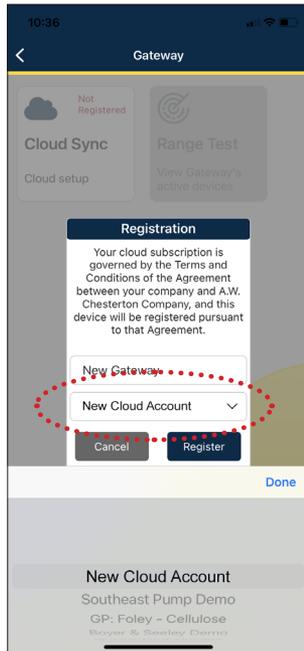


Figure 8

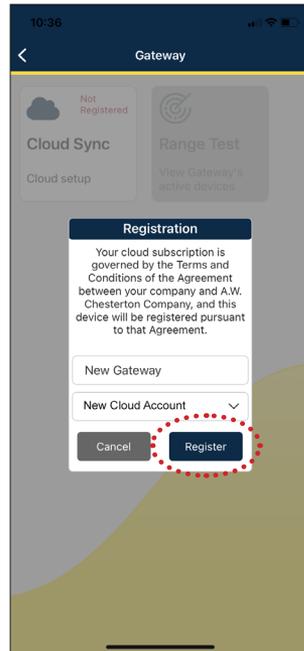


Figure 9

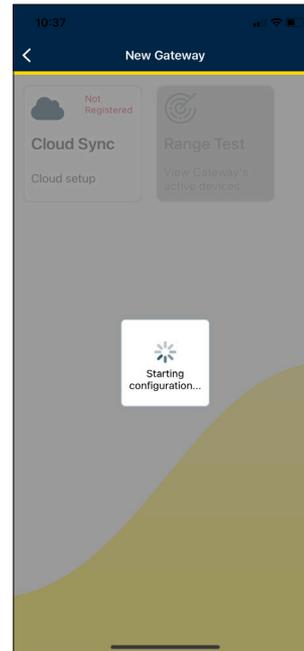


Figure 10

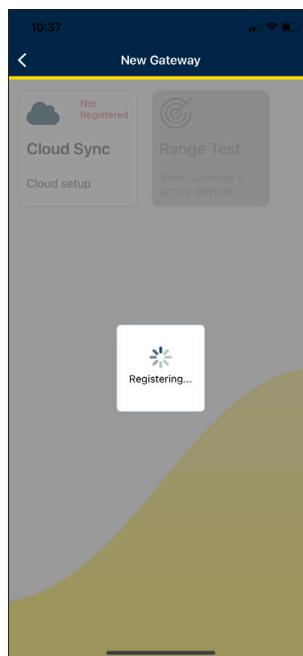


Figure 11

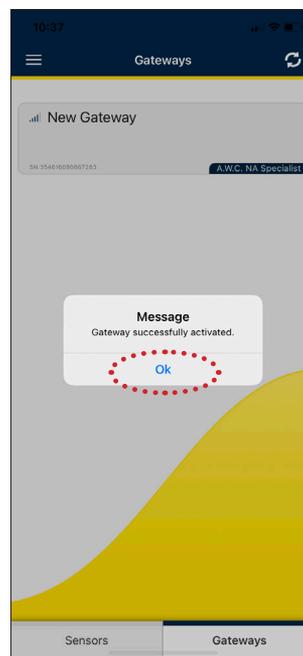


Figure 12

## Changing Cloud Account Registration

To reset and register the Gateway to a different cloud account:

1. Press and Hold for 12 seconds the button located at the center of the gateway where shown. After 12 seconds, all LED lights will start blinking continuously indicating the Gateway is ready for setup.
2. Follow Gateway Registration steps on Page 6 and 7.



*Note: The reset button must not be pressed longer than 20 seconds. If pressed longer than 20 seconds the reset process will automatically be cancelled.*

## Signal Strength Test

### GATEWAY RANGE TEST

*Note: Mobile app must be within 20m (65ft) Bluetooth range from the Gateway.*

1. Select the registered Chesterton Connect™ Gateway.
2. Select *Range Test*.
3. The Gateway Cellular Signal Strength helps determine if the Gateway is located within cellular signal. The Sensor Signal Strength displays Sensors-to-Gateway distance signal strength.

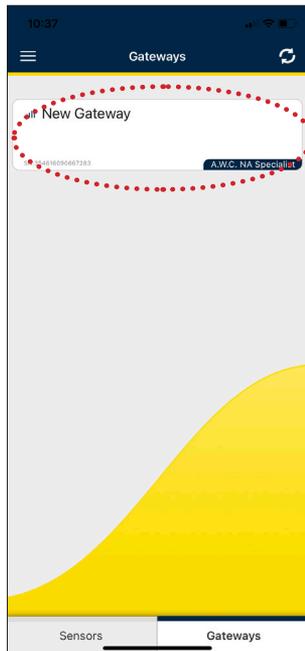


Figure 13

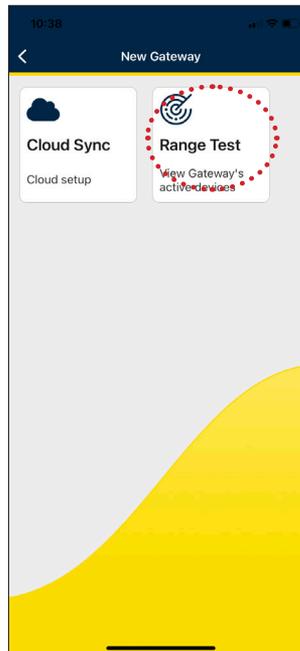


Figure 14

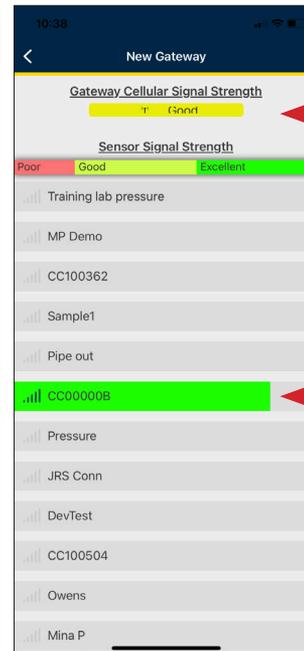


Figure 15

## Limited warranty

Chesterton warrants, for a period of one (1) year from the original date of shipment, that its Chesterton Connect™ product (the “Product”) will be delivered free from defects in material and workmanship. Improper use of the Product, including but not limited to failure to follow instructions and warnings stated in any User Guide, accident, neglect, or abuse of the Product, or modifying the Product will void this warranty. THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. For more information, including further limitations on the warranty and remedies for any defective products, please visit: [ChestertonConnect.com/Warranty](https://ChestertonConnect.com/Warranty).

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## Privacy policy

To view Chesterton's privacy policy please visit:

<https://chesterton.com/en-US/Pages/Privacy.aspx>

## For more information

Go to: [connect.chesterton.com](https://connect.chesterton.com)

Contact:

Email: [connect.support@chesterton.com](mailto:connect.support@chesterton.com)

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