LIPPERT™

Lippert Temperature Sensor
Installation and Owner's Manual
(For Aftermarket Applications)

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Introduction

Keep an eye on the RV's fridge and freezer with real-time updates using the Lippert Temperature Sensor. Using OneControl® technology, wireless sensors monitor the RV's fridge and freezer while traveling and camping. Monitor up to four sensors simultaneously on a smart device.

Designed with a unique, out-of-the-way mounting feature, simply place the sensor on the inside wall of a refrigerator. This saves space inside the fridge and keeps the sensor stable in one place.

Additional information about this product can be obtained from lci1.com/support or by using the LippertNOW app. Replacement kits can be ordered from https://store.lci1.com/ or by using the LippertNOW app.

The LippertNOW app is available for free on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

App Store® and iPad® are registered trademarks of Apple Inc.

Google Play™ and Android™ are trademarks of Google Inc.

Safety

Read and fully understand all instructions before installing or operating this product.

Adhere to all safety labels.

⚠ WARNING

FOLLOW BATTERY WARNING INFORMATION OR SEVERE PERSONAL INJURY MAY OCCUR.

⚠ WARNING

KEEP BATTERIES AWAY FROM CHILDREN.

Parts List

Lippert™ Temperature Sensor Kit - 2021130659			
Letter	**PN**	**Description**	**Qty**
A	2021126939	Lippert Temperature Sensor	1

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

Resources Required

• OneControl App

• Cloth to wipe refrigerator or cooler

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Installation

Install OneControl Application

The sensor requires the OneControl app from Lippert.

• For iOS users, visit the Apple App Store (link).

• For Android users, visit the Google Play store (link).

NOTE: Make sure the smart device is connected to the Internet and Bluetooth is ON.

1. Search for "OneControl" **(Fig.1)** in the app store supported by the smart device.

Fig.1

2. Download the OneControl app to the smart device and follow the prompts for setting up a new account or logging in to an existing account.

NOTE: The sensor requires OneControl V5.0 or higher. Sensors will also work with Compass Connect, Lippert Connect or OCBT apps provided the versions are V5.0 or higher. To use it on an Apple phone, you will need an iPhone 8 or higher running iOS Version 13 or higher. If you have an Android phone, it will need software version 8 or higher."

Operation

Pairing OneControl app with Temperature Sensor

1. Turn on the sensor: press and hold the large button on the back until the green LED light turns on. When the light turns off, the sensor is now on and ready for pairing.

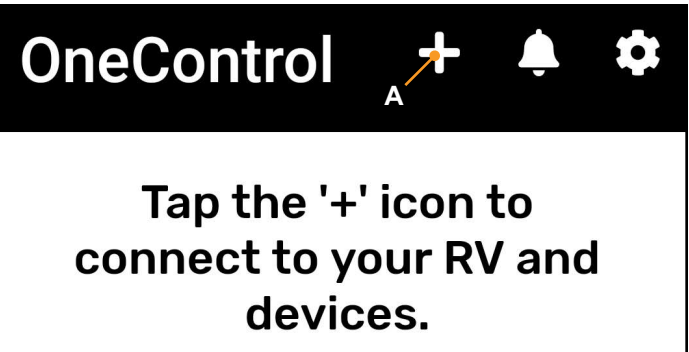**2.** Open the app and look for the "+" on the top of the screen **(Fig.2A)**.

Fig.2

3. Tap the "+" and navigate to Add and Manage page.

4. At the Add and Manage page, tap sensor **(Fig.3A)** and follow the directions queued in the app.
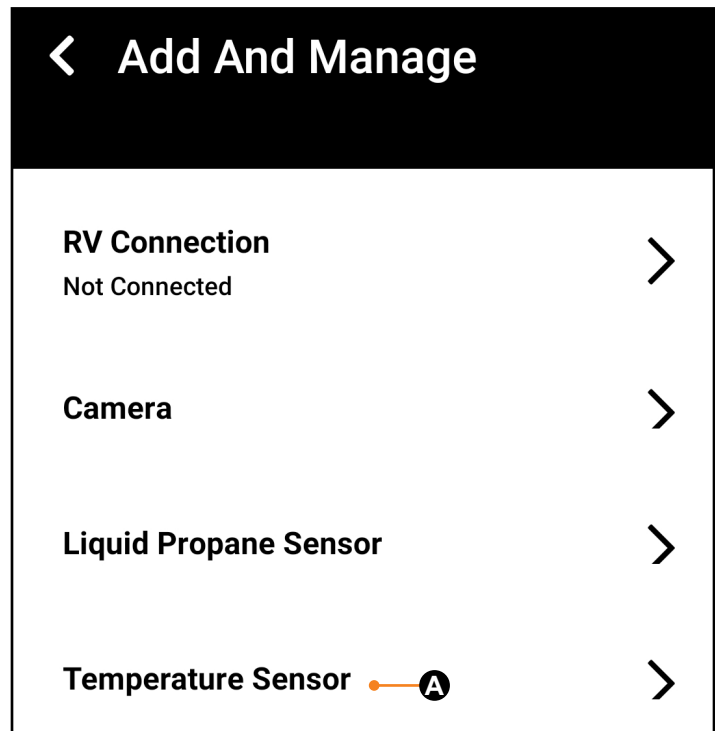

Fig.3

NOTE: Keep the smart device near the sensor during pairing procedure. The sensor communicates via Bluetooth. Bluetooth range varies and can be limited by obstructions, like an RV's walls or being inside a refrigerator or freezer.

5. Accept any permission requests that appear on your smart device screen **(Fig.4)**.

Allow **OneControl** to access this device's location?

While using the app

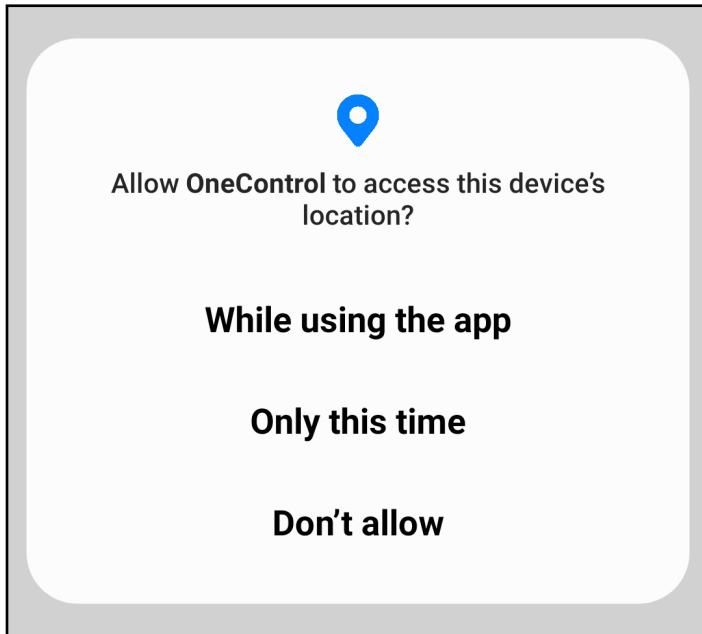**Only this time**

Don't allow

Fig.4

6. Press and hold the large button on the back of the sensor **(Fig.5A)** until the green LED begins flashing. The sensor is now in pairing mode. When the OneControl app makes contact with the sensor, it will be paired automatically.
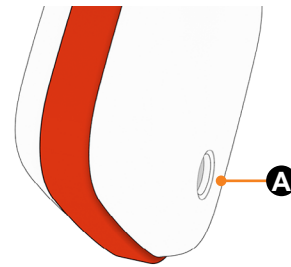
Fig.5

7. When paring is complete, you will see a confirmation message **(Fig.6)**.

Connect Your Temperature Sensor

SENSOR CONNECTED SUCCESSFULLY

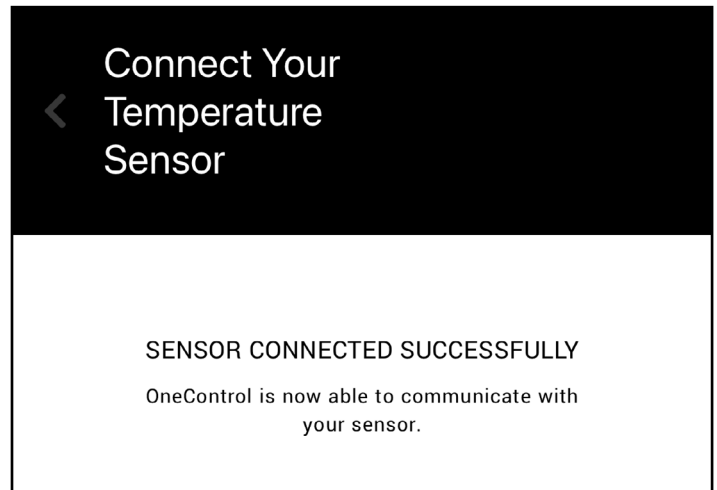OneControl is now able to communicate with your sensor.

Fig.6

NOTE: The pairing window times out at 60 seconds. If the pairing process times out, repeat the process. To ensure success, make sure the smart device is on, its Bluetooth is on and its location or location permissions are on. In the app, make sure permission have been granted and the sensor and phone are next to one another.

Usage Set-up

Once OneControl and the senor are paired and communicating via Bluetooth, the sensor can be set up within the app.

1. Choose a name for the sensor from the name list **(Fig.7A)** to help distinguish what sensor is being measured.
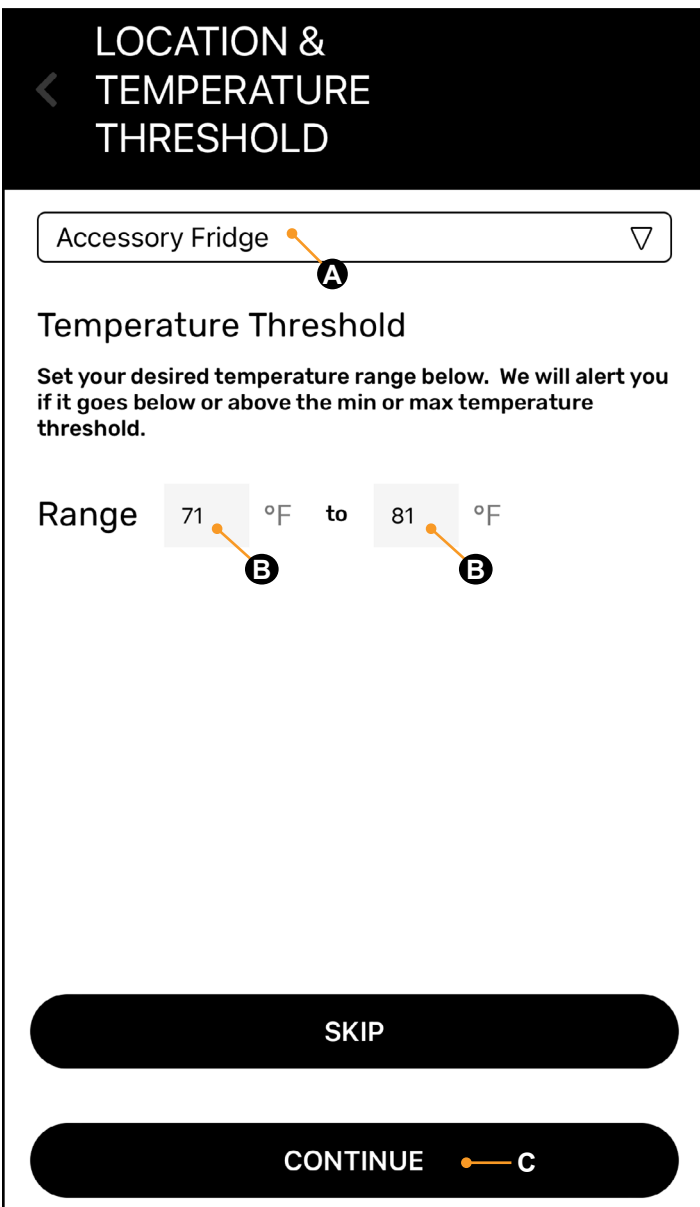
2. Select your temperature threshold **(Fig.7B)**. You may adjust the temperature to suit other applications, like freezers or rooms. Alerts are sent if temperature exceeds thresholds and when it returns to normal.

3. After set up selections have been made, tap CONTINUE **(Fig.7C)** to save selections.

NOTE: Sensors may not send alerts if they sense a rapid and brief rise in temperature, like when loading or removing food from a fridge.

The sensor operates between -20°F and 140°F.

If threshold selection exceeds the high temperature range, the user will receive the following alert **(Fig.8)**
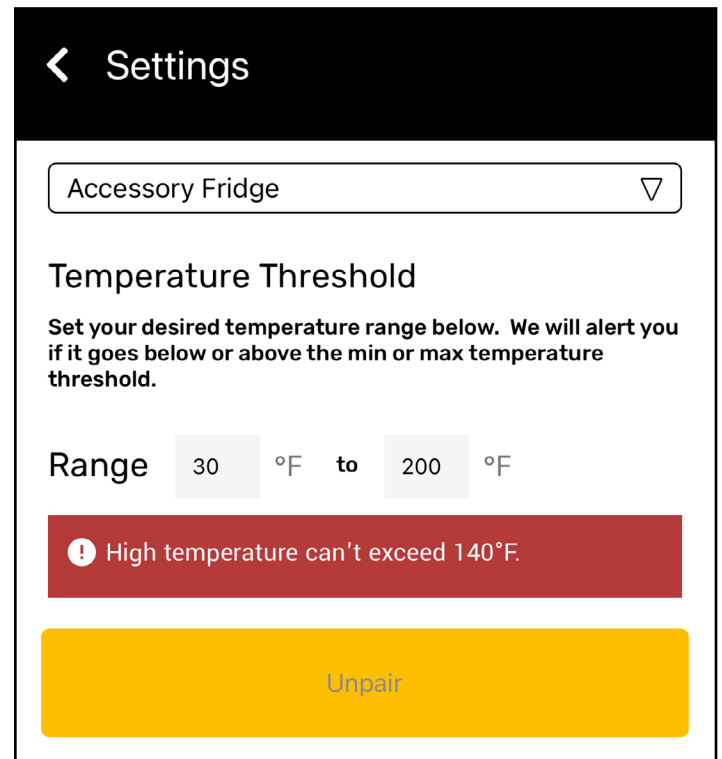
LOCATION & TEMPERATURE THRESHOLD

Accessory Fridge ▽
A

Temperature Threshold

Set your desired temperature range below. We will alert you if it goes below or above the min or max temperature threshold.

Range 71 °F to 81 °F
B   **B**

SKIP

CONTINUE ●— C

Fig.7

❮ Settings

Accessory Fridge ▽

Temperature Threshold

Set your desired temperature range below. We will alert you if it goes below or above the min or max temperature threshold.

Range 30 °F to 200 °F

❗ High temperature can't exceed 140°F.

Unpair

Fig.8

If threshold selection exceeds the low temperature range, the user will receive the following alert (**Fig.9**).
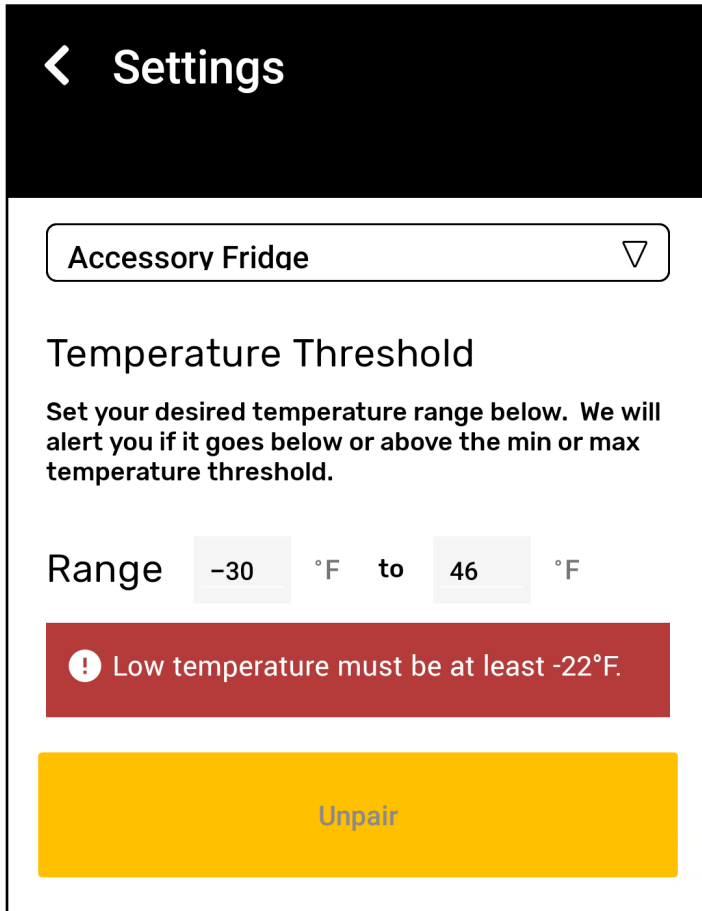

Fig.9

Setting Negative Temperature for Android Devices

When the number pad is present on the smart device screen, double tap the ".-" button (Fig.10A). Tapping once will enter a '.' but tapping twice will enter the '-' for negative temperatures.
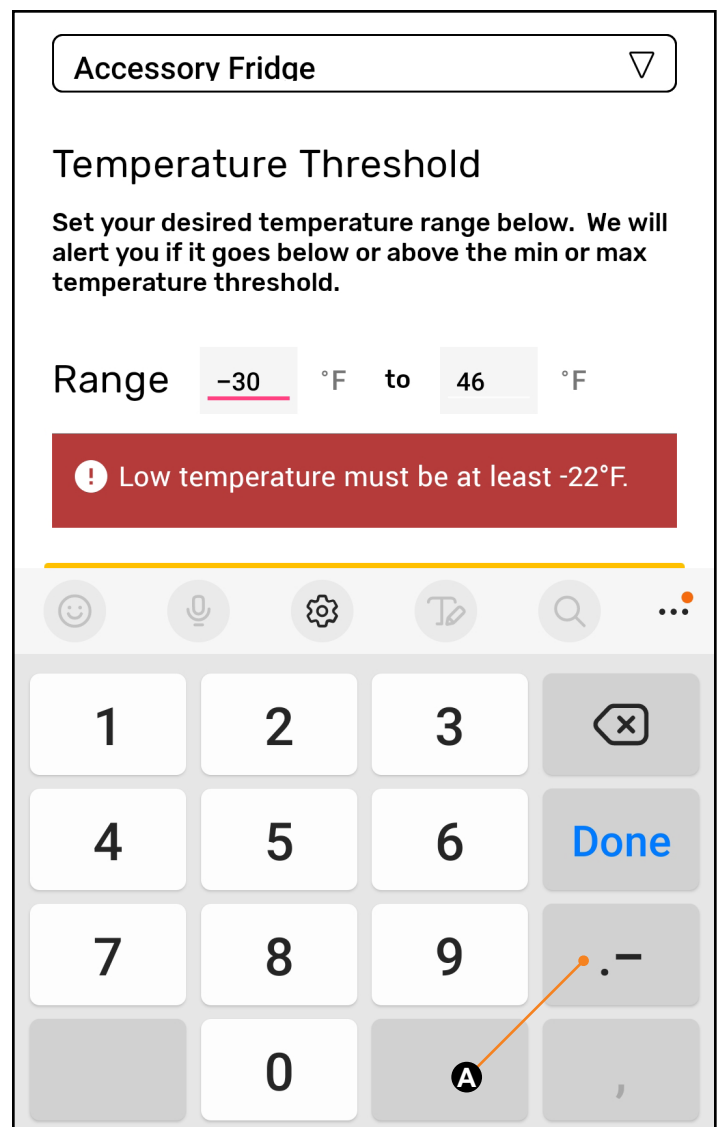

Fig.10

Some smart devices may, by default, have notifications turned off. OneControl will let you know if they need to be turned on **(Fig.11A)**.

Fig.11

To save your selections, press Apply **(Fig.11B)**. You will be taken to the OneControl homepage. Scroll down to see your sensor **(Fig.12)**.
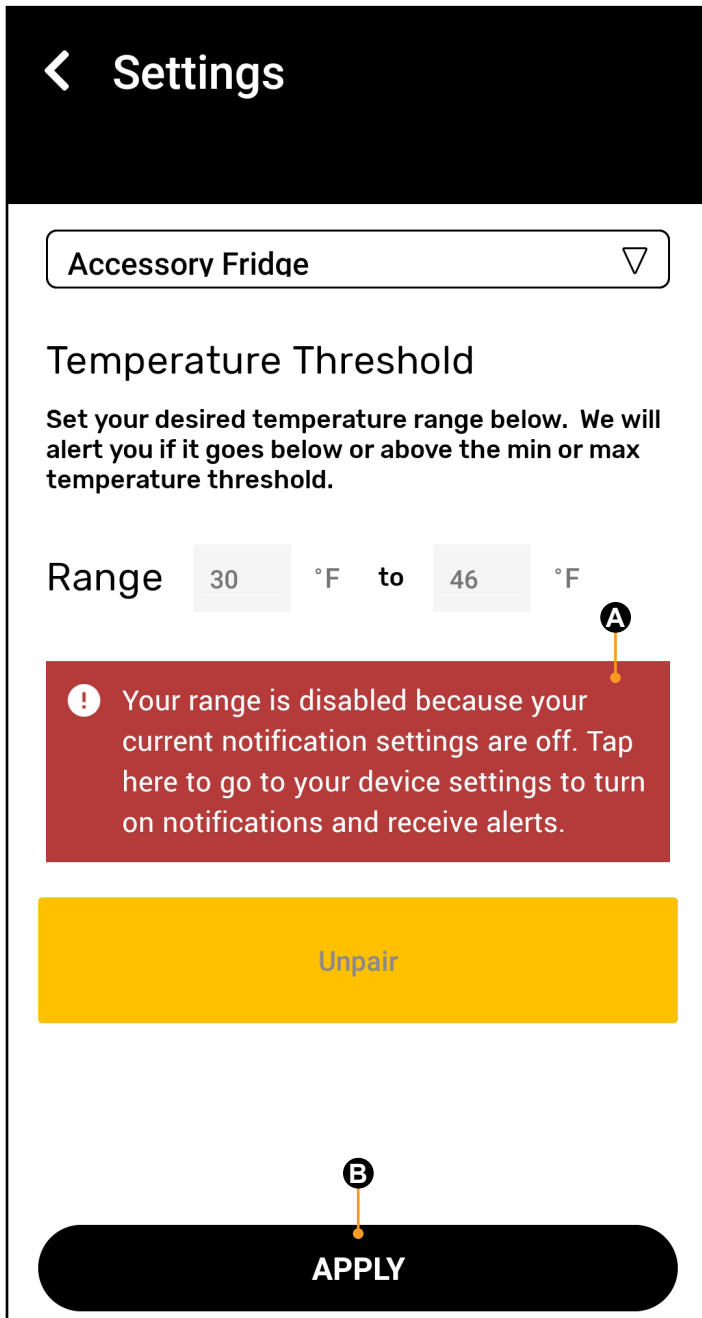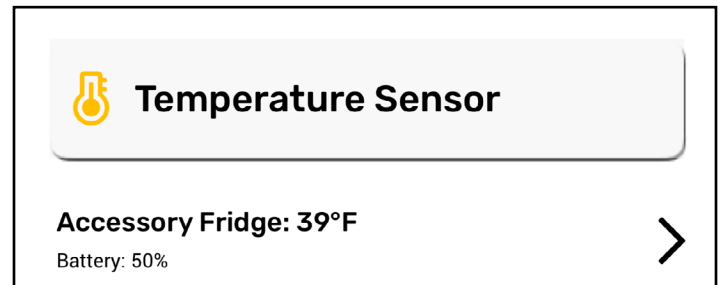

Fig.12

Physical Installation of Sensor in Refrigerator
The sensor can now be mounted.

1. Locate a spot on the refrigerator or freezer wall near the door **(Fig.13A)**.
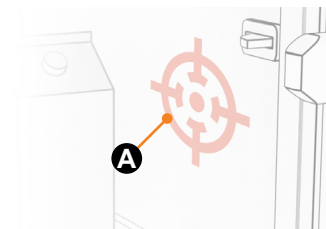

Fig.13

NOTE: Confirm the door will close without interference from the sensor.

2. Clean the desired location where the sensor will be mounted. Remove any debris or moisture.
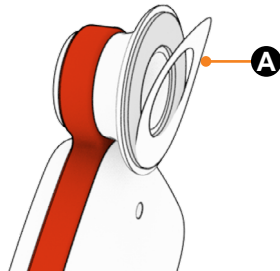
3. Remove the seal from the adhesive pad **(Fig.14A)**,

Fig.14

NOTE: Adhesive is intended for durable plastic and metal surfaces. It is not recommended for fabric, wallpaper or painted surfaces.
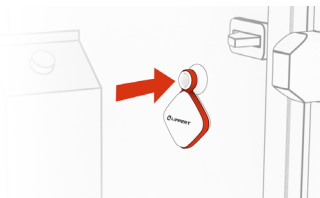

Fig.15

4. Attach to the clean surface **(Fig.15)**.

5. Close the door. You will receive a notification when the refrigerator or freezer reaches your desired temperature threshold.

NOTE: By removing the post, you may hang the sensor anywhere you want; such as rooms, cargo areas and more.

Understanding Intelligent Alerts and Notifications

Now that the sensor has been paired, customized and installed, OneControl will begin to send push notifications to the smart devices when temperature thresholds have been breached or if the battery is low.

Notifications are sent via Bluetooth. From most RV refrigerators, the range is about 40 feet. To determine the range, walk away from the sensor and open the app at various distances **(Fig.16)**. The app may take up to a minute to sync with the sensor.

Fig.16

By monitoring the rate and time of temperature changes, the sensor's intelligent monitoring system avoids unnecessary alerts during normal use.

Thresholds can be adjusted anytime in the OneControl app and when in Bluetooth range of the sensor.

The sensor's alert thresholds are preset for typical RV refrigerators (30°F to 46°F). Alerts are sent if temperature exceeds thresholds and when it returns to normal.

To pair another Sensor, return to the OneControl home page, press the "+" and repeat the process.

Battery Information

Follow battery warning information and the warnings in this manual. The sensor comes with a CR-2450 coin cell battery. This battery is rated for refrigerators and freezers.

NOTE: When replacing the battery in the sensor, make sure the replacement battery is rated for the temperature range for where the sensor will be installed. For example, if the sensor is to be used in a freezer, make sure that the replacement battery is rated to operate at -4°F / -20°C or lower. In general, for low temperature applications, the lower the temperature rating of the battery, the longer life it will have at low temperatures, such as in a freezer.

Only use new batteries and of identical type. Do **NOT**:

• Throw batteries into water

• Throw batteries into fire

• Short-circuit batteries.

• Open or disassemble batteries

⚠ WARNING

USE CARE WHEN REMOVING OR INSERTING THE BATTERY. DO NOT USE SHARP OBJECTS TO REMOVE, INSERT OR HANDLE THE BATTERY. SHARP OBJECTS CAN CAUSE DAMAGE TO THE BATTERY THAT MAY RESULT IN RUPTURING THE BATTERY. A RUPTURED BATTERY CAN EXPOSE ITS CAUSTIC CONTENTS TO EYES, LUNGS AND SKIN CAUSING SEVERE PERSONAL INJURY. IF EXPOSED TO BATTERY CONTENTS, SEEK IMMEDIATE MEDICAL ATTENTION.

⚠ WARNING

WHEN HEATED ABOVE 100 °C (212 °F) THE RISK OF RUPTURE OCCURS. A RUPTURED BATTERY CAN EXPOSE ITS CAUSTIC CONTENTS TO EYES, LUNGS AND SKIN CAUSING SEVERE PERSONAL INJURY. IF EXPOSED TO BATTERY CONTENTS, SEEK IMMEDIATE MEDICAL ATTENTION.

Resources Required

• CR-2450 battery with appropriate temperature range (see "Battery Information")

• Small, flat-head screwdriver

NOTE: Complete removal of the sensor should not be necessary. The best practice is to NOT remove where the sensor is adhered and keep adhesive attached.

1. Pull the senor out of the mounting rubber band (**Fig.17**).

Fig.17

2. Locate the slot on the bottom corner of the Temperature Sensor (**Fig.18A**) Insert a small, flat-head screwdriver and twist to open.
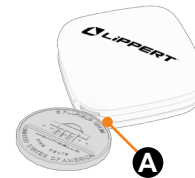

Fig.18

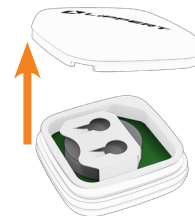**NOTE:** Instead of a screwdriver, a slim coin can be used.

Fig.19

3. The sensor will pop open like a clamshell (**Fig.19**).

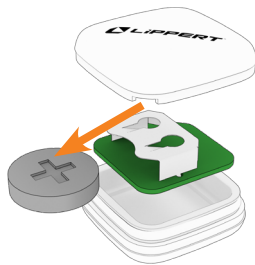**4.** Lift out the sensor platform and slide out the old battery (**Fig.20**).

Fig.20

NOTE: Lithium button cell batteries are classified by the U.S. federal government as non-hazardous waste and are safe for disposal in normal municipal waste systems. Lithium button cell batteries are classified differently in other countries wherein battery disposal must follow in accordance with their respective local laws.

5. Install the new battery (**Fig.21**).
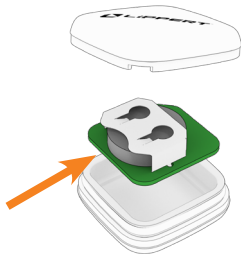
NOTE: Make sure the positive side of the battery faces up.

Fig.21

6. Put the platform into the transparent tray (**Fig.22**).
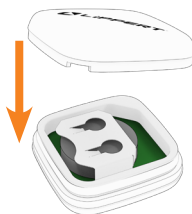

Fig.22

7. Snap the top of the sensor body back into place (**Fig.23**).

Fig.23

8. Open the app and wait until the app and the sensor sync.

NOTE: If the sensor was On/Sleep mode before battery was replaced, the sensor will return to that mode when the new battery is installed. If the sensor was Off before replacing the battery, then it will be necessary to turn on the sensor and complete the install/set-up process.

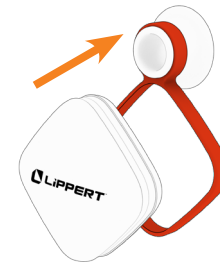**9.** Return the sensor back to the rubber band (**Fig. 24**).

Fig.24

Troubleshooting

What is happening?	Why?	What should be done?
Sensor won't pair with phone.	Mobile device and sensor can't find each other.	• Make sure Bluetooth connection is good and ensure device has been synced following the procedure. • Make sure smart device's Settings is allowing Location to be shared.
OneControl app is incorrectly reporting temperature.	There is interference between sensor and smart device.	• Make sure the smart device's Bluetooth setting is on, and the app is setup within the smart device's Settings. • Try pairing sensor outside of freezer or refrigerator to make sure working properly. • Try placing on different walls of freezer or refrigerator.
	Sensor improperly placed in freezer or refrigerator.	Be sure sensor is properly installed (see Installation section).

Maintenance

Changing Temperature (Fahrenheit to Celsius)
To change from Fahrenheit to Celsius, go to the Settings within the app on the smart device being used for OneControl.

Know Bluetooth Range
Alerts will be received by the smart device when sensor is in Bluetooth range. The range varies depending on obstructions. With no obstructions, Bluetooth range may extend as far as 300 feet.

When installed, refrigerator or freezer walls can limit range to 30 or 40 feet.

Look for the Bluetooth icon on the OneControl homepage to determine if you are in range.

Unpairing Sensor
If the sensor is lost or damaged beyond repair, open the OneControl app and look for the "Unpair" button on the sensor's homepage. Unpair the device and dispose safely like other electronic equipment.

NOTE: If lost and recovered, the sensor can be paired again with the smart device.

Notes