



Lippert Temperature Sensor

Installation and Owner's Manual

(For Aftermarket Applications)

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Lippert Temperature Sensor Kit

Kit #	Description
2021130659	Lippert Temperature Sensor



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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.

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 left hand corner (Fig.2A).

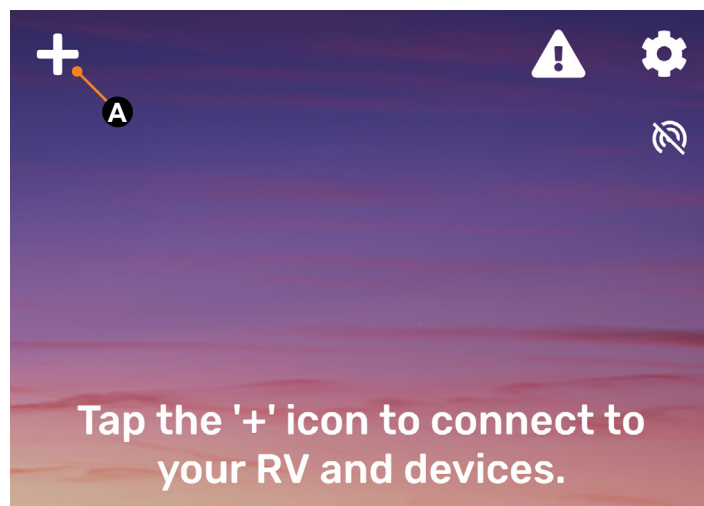


Fig.2

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.

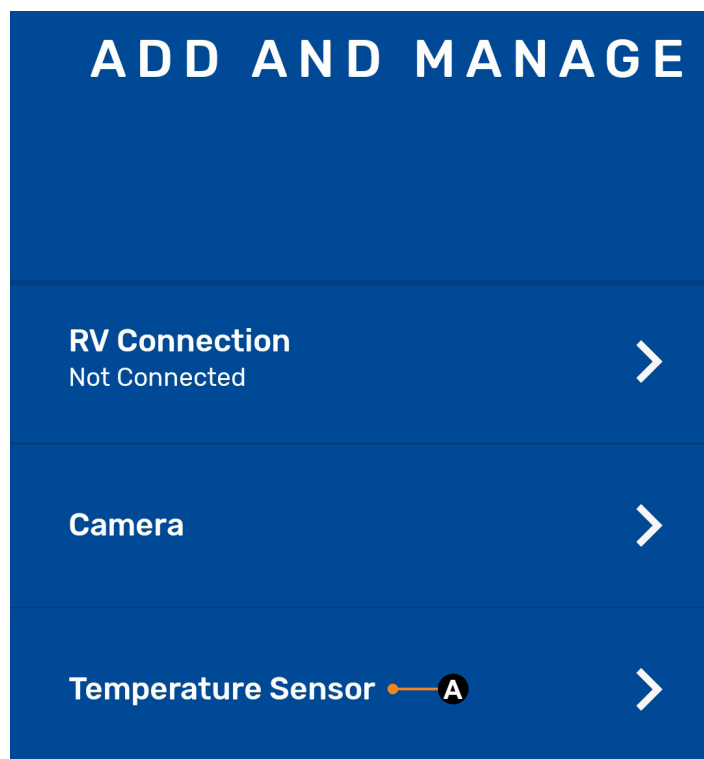


Fig.3



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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).

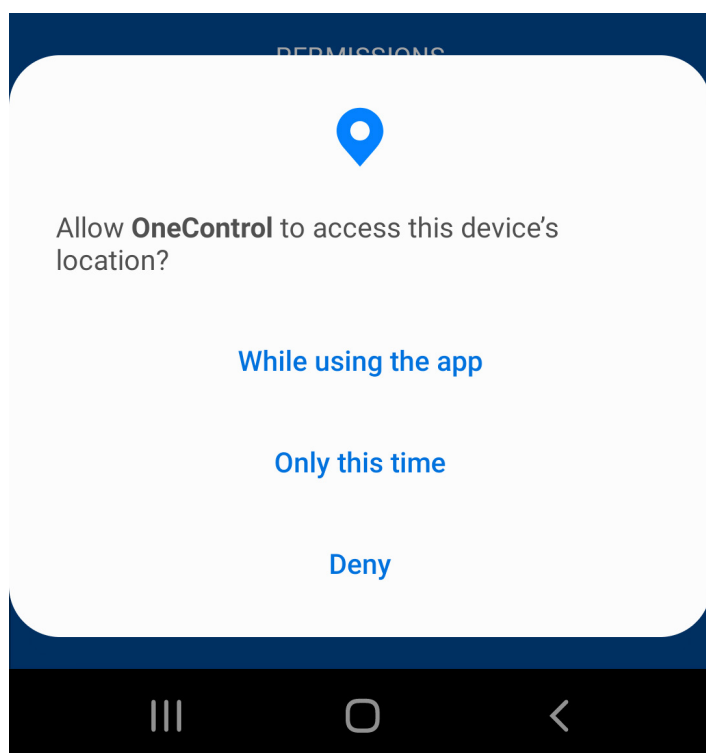


Fig.4

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.

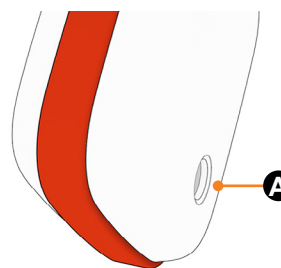


Fig.5

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

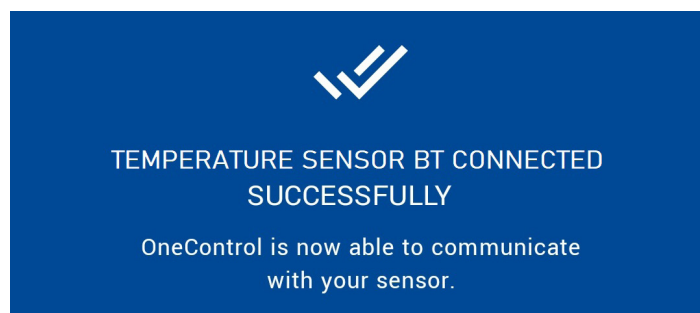


Fig.6

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.



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Usage Set-up

Once OneControl and the sensor 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.

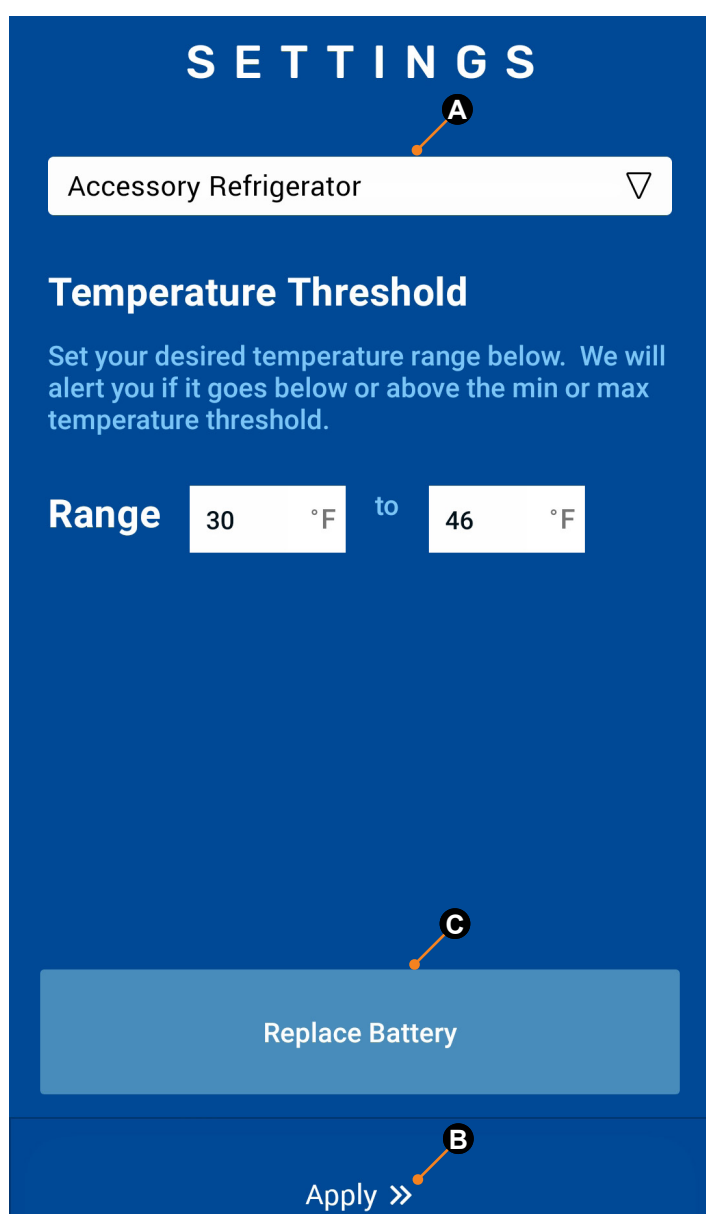


Fig.7

2. Select your temperature threshold (Fig.7). The sensor comes preset for a typical RV refrigerator (30°F to 46°F). 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, press Apply (Fig.7B) 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.

NOTE: As the OneControl app is used, the light blue Replace Battery button (Fig.7C) may appear. No action is necessary. Tapping the button will navigate to instructions on how to change the sensor's battery. These instructions can also be found here in the Battery Information section of this manual.

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)

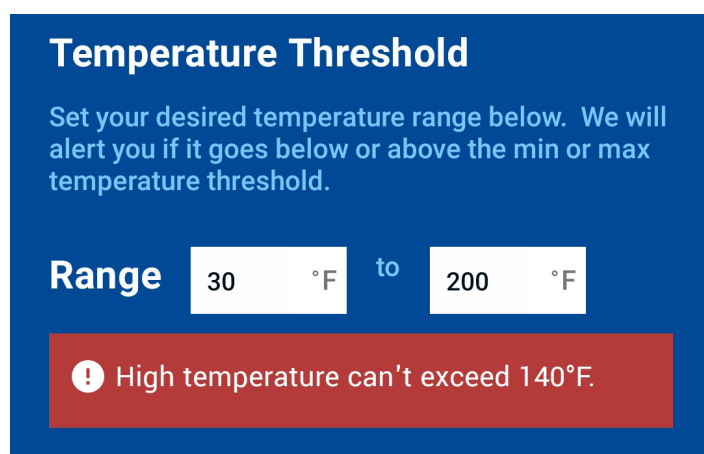


Fig.8



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

The screen has a blue background. At the top, it says "Temperature Threshold". Below that, it says "Set your desired temperature range below. We will alert you if it goes below or above the min or max temperature threshold." There are two input fields: the first contains "-30" and the second contains "81", both followed by "°F". Between the fields is the word "to". Below the input fields is a red banner with a white exclamation mark icon and the text "Low temperature must be at least -22°F."

Fig.9

NOTE: As of January 2022, the current version of the OneControl app for Apple users does not allow for the entry of negative temperatures. Lippert app developers are aware and working on an update to resolve the issue.

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.

The screen has a blue background. At the top, it says "Refrigerator Temperature" with a dropdown arrow. Below that, it says "Temperature Threshold". Below that, it says "Set your desired temperature range below. We will alert you if it goes below or above the min or max temperature threshold." There are two input fields: the first contains "-23" and the second contains "81", both followed by "°F". Between the fields is the word "to". Below the input fields is a red banner with a white exclamation mark icon and the text "Low temperature must be at least -22°F." Below the banner is a numeric keypad with buttons for digits 1-9, 0, a decimal/minus button (.-), and a Done button. An orange arrow points to the decimal/minus button, which has a small 'A' in a circle next to it.

Fig.10



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

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

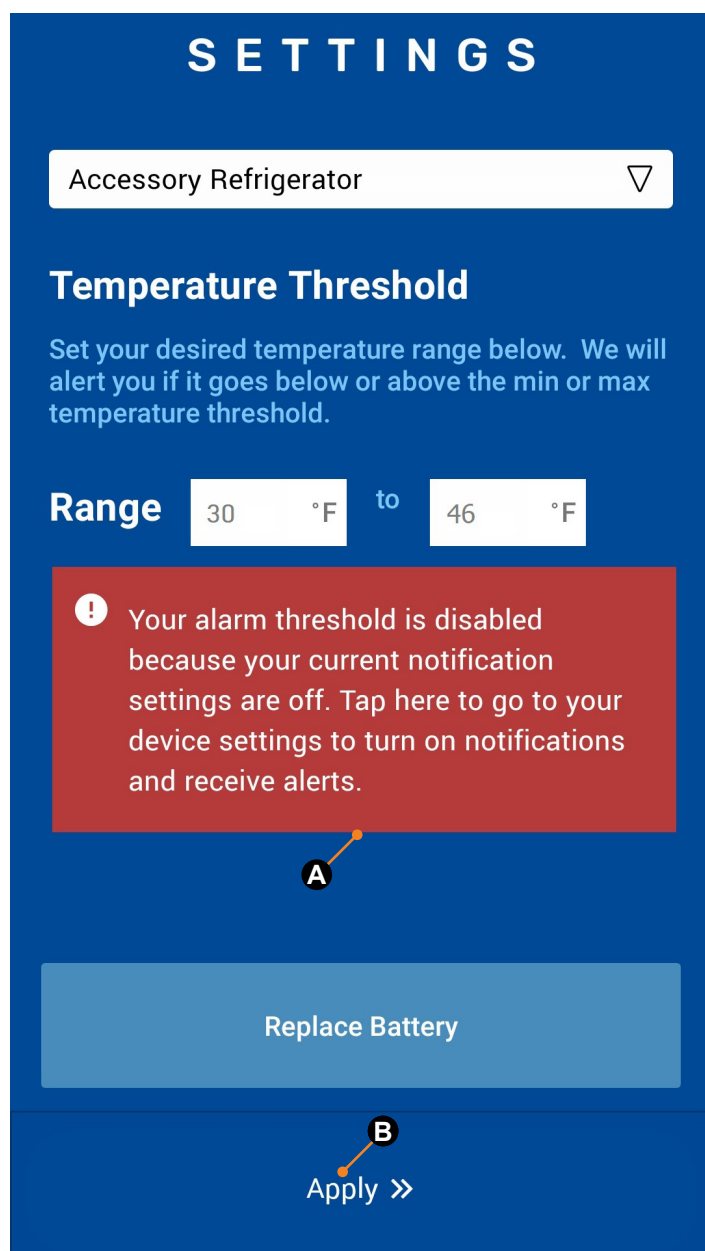


Fig.11

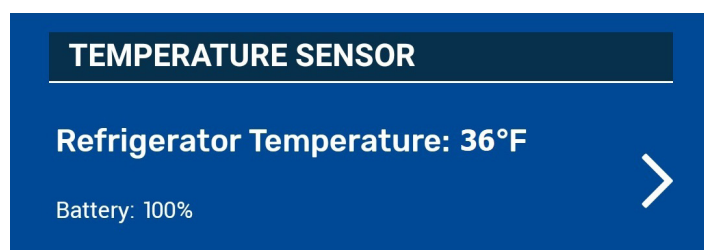


Fig.12

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).

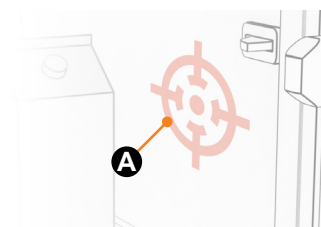


Fig.13

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



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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),

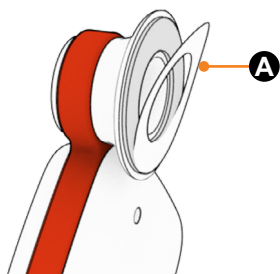


Fig.14

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

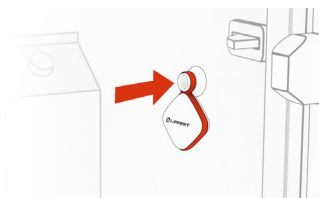


Fig.15

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.



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Battery Information

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

NOTE: If only used in a refrigerator or to measure temperature in a room, a CR-2450 battery can be used.

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 ITS RUPTURING. 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

- BR-2450 or CR-2450 battery (depending)
- 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 sensor 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.

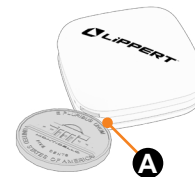


Fig.18

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

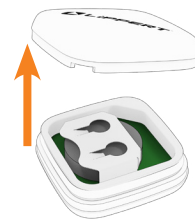


Fig.19

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



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

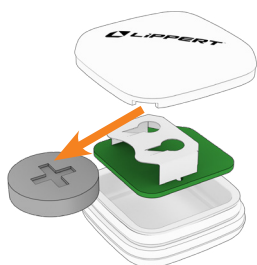


Fig.20

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.

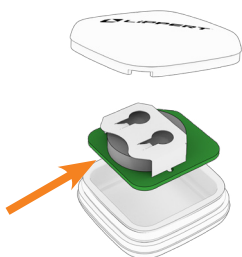


Fig.21

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



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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.



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Notes



Manual information may be distributed as a complete document only, unless Lippert provides explicit consent to distribute individual parts.

All manual information is subject to change without notice. Revised editions will be available for free download at lippert.com. Manual information is considered factual until made obsolete by a revised version.

Please recycle all obsolete materials and contact Lippert with concerns or questions.



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Follow proper safety practices. If in doubt, consult a professional RV technician.