

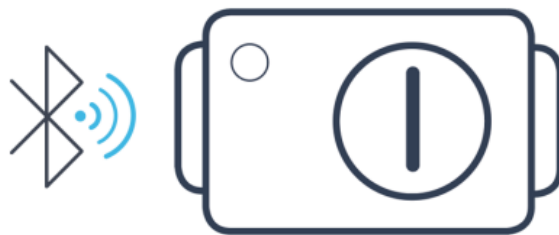


TT Electronics S-2CONNECT Sense Tracking/Monitoring Kit User Guide

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S-2CONNECT Sense User Guide



S19P01

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Introduction

Thank you for choosing a TT Electronics product. Please read the user guide before bringing this device into service.

Packet Contents

- 1. S-2CONNECT Sense
- 2. Battery Hatch Key
- 3. Quick Start Guide

Environmental information



This symbol on the product should not be mixed with other waste and harm the environment. Proper disposal should be taken into account for recycling. This symbol respects the local environmental rules. Visit www.s-2connect.com for more information.

REACH

TT Electronics complies with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework). Read more at www.s-2connect.com

Safety Precautions and Prohibited Handling



DO NOT ATTEMPT TO INSTALL, USE OR MAINTAIN THE S-2CONNECT Sense UNIT UNTIL YOU HAVE READ AND FULLY UNDERSTOOD THESE INSTRUCTIONS. BE SURE THIS INFORMATION REACHES THE OPERATOR AND STAYS WITH THE PRODUCT AFTER INSTALLATION. DO NOT PERMIT UNTRAINED PERSONS TO INSTALL, USE OR MAINTAIN THIS PRODUCT.

Inspect the device for physical damage and contamination. Do not connect the device or accessory if you detect oil, grease, water, broken or damaged parts.

When unpacking the device, make sure to handle it with care. Rough handling may shock the device, causing damage. Check that the device is free from cracks, fractures, leakage.

Do not place the device near any other device that may cause sparks (such as a switch or a fuse). The battery may generate flammable gas when charged, so always ensure the battery is kept away from open fire and/or flames to prevent sparks from igniting or causing explosions.

Do not allow the device to be immersed in water/seawater.

Do not attempt to disassemble or destroy the unit. The product must be handed over to an authorized workshop for maintenance and to a suitable recycling station when it is taken out of service.

Use this product only within specified temperatures.

Do not place other products or objects on top of S-2CONNECT Sense or the performance of the device's internal antennas may be compromised.



This product contains a battery. The battery is replaceable.

Pay special attention to the battery if the product is taken out of use, and if the product is up for disposal.

Dispose of used batteries as hazardous waste.



Familiarise yourself with the functions of the device before using it.

All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.

Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.

Damage caused by disregard of guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.

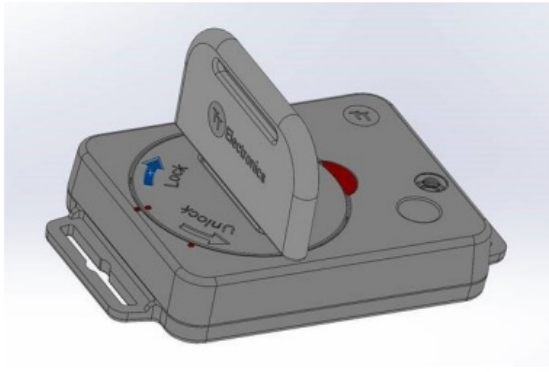
TT Electronics, nor its authorized resellers can be held responsible for any damage (extraordinary, incidental, or indirect) – of any nature (financial, physical....) arising from possession, use, or failure of this product.

Due to constant product improvements, the actual product appearance might differ from the shown images.

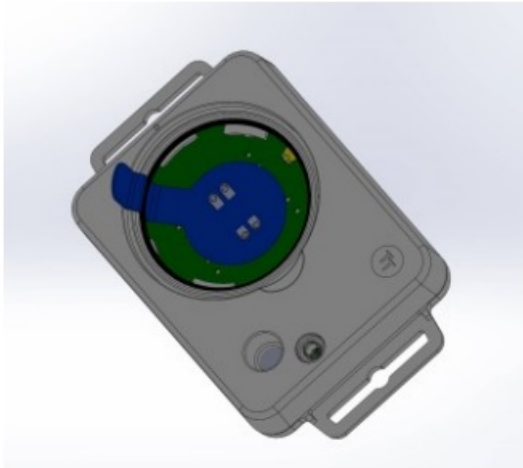
Installation and usage

1. Make sure there is no damage to the equipment.
2. Choose your suitable installation location. Consider the environmental requirements and be advised that this device contains antennas that could be affected by other equipment within close range.
3. Remove the battery isolation tab. See below for instructions.
4. Check the LEDs to verify proper operation.

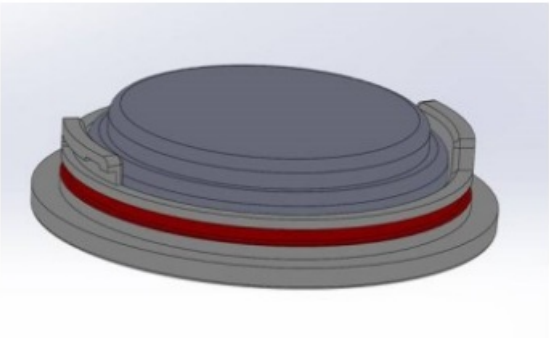
Activating and replacing the battery



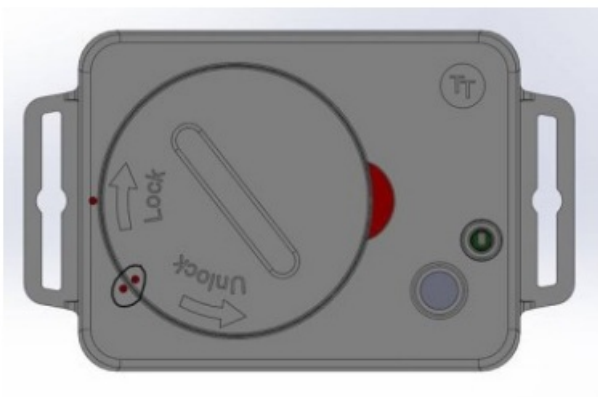
1. Use the battery hatch key provided to open or close



1. To activate the battery, lift the battery hatch and re



1. When replacing the battery, pay attention to the pl



1. Close the battery hatch carefully using the battery

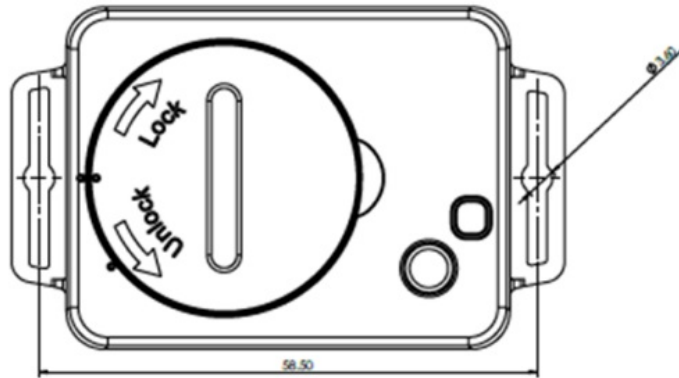
Mounting

This product can be mounted on any type of surface with standard screws (not included in the package). It can be mounted in any desirable direction except that the device should not be mounted with the battery hatch upwards if there is any risk for water or other fluids pouring over the device. The device can be used as a portable device and does not require fixed installation.



If the product is mounted on a metallic surface or close to a substantial amount of metal the antenna performance may become compromised. For full functioning antenna performance, the device should be mounted not less than 30mm from metal.

Avoid placing The unit close to powerful electromagnetic equipment.



Switching the Device on

This device switches on automatically following the insertion of the battery.

Using the Device

This device is intended for restricting remote operation. Log in to your user interface to interact with the device.

Battery Operation

The battery operation time is depending on configuration, the surrounding temperature, and other parameters. It can be up to 12 months.

LED Functionality

S-2CONNECT Sense is equipped with a LED, that operates as:

- Long Blink at battery insertion
- Short Blink when communicating with S-2CONNECT Hub

Operating and Maintenance Recommendations

Ensure the device is operated within the correct operating temperatures.
This product requires no maintenance. It can be wiped clean with a damp cloth.

Error Handling, Faults, and Repairing

Error Handling

First Action

If the device does not operate as expected the first step is always to check if the battery is fresh. Low battery LED the indication should indicate if the battery level is too low, but if you detect malfunction do always replace the battery as the first step to get back to normal operation.

No Radio Communication

S-2CONNECT Sense uses Bluetooth LE for communication with S-2CONNECT Hub. Check that S-2CONNECT Sense is within radio communication distance from the S-2CONNECT Hub.

Other radiofrequency devices may disturb the communication between S-2CONNECT Sense and S-2CONNECT Hub.

Try to move the units to another area if you suspect this might be the case.

Faults and Repairing


Faulty devices shall always be replaced. Do not try to repair the unit. The unit is sealed and cannot be opened without destroying the device.

Accessories and Peripherals

S-2CONNECT Sense is part of a series of products including devices that can interoperate with S-2CONNECT Hub. Check the website for more information www.s-2connect.com

Technical Parameters

Technical Data

	<p>S-2CONNECT Sense—Dimensions and Weight 33.0 x 64.5 x 9.5 mm (L x W x H), Nominal weight 17g (excluding battery)</p> <p>Battery type CR2450</p> <p>Housing Polycarbonate</p> <p>Operating Temperature -20°C to + 85°C</p> <p>Operating Humidity 0 – 95 % RH, non-condensing</p> <p>IP Rating IP 65</p>
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Sensors Accuracy

Temperature	-20°C to + 85°C (+/-0.3%)
Humidity	0 – 100 % RH (+/-2% RH)
Accelerometer	+/-2g (+/-2mg/LSB)
Light sensor*	Detects dark/light

*Only for devices with transparent hosing

Radio Frequencies



Radio technology	Frequency band
Bluetooth	2.4 GHz BLE

Compliances

Declaration of Conformity

Simplified EU Declaration of Conformity

TT Electronics hereby declares that S-2CONNECT Sense is in compliance with the essential requirements of the following EU directives:

- RED 2014/53/EU
- RoHS 2011/65/EC
- WEEE 2012/19/EU

Full text of the conformity is available at www.s-2connect.com

This equipment complies with EU radiation exposure limits set forth for uncontrolled equipment. This equipment should be installed and operated with a minimum distance of 20cm between the device and the user and/or any bystander.

FCC Compliance

S-2CONNECT Sense has been tested to fulfill the FCC requirements. Test reports are available upon request.

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 their own expense.

Approved Module

S-2CONNECT Sense includes a pre-approved radio module:

Radio Interface	Manufacturer	Type number
Bluetooth	Telit	BlueMod+S42

Telit BlueMod+S42

FCC Labelling

FCC ID: RFRMS42

IC: 4957A-MS42

Bluetooth Qualification

The BlueMod+S42 is a qualified design according to Bluetooth Qualification Program Reference Document (PRD) V2.3.

Declaration ID: D032121

Qualified design: 88139

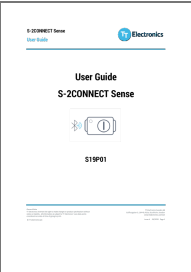
General Note

TT Electronics reserves the right to make changes in product specifications without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at the time of going to print.

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www.ttelectronics.com/iot
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Documents / Resources

	<p>TT Electronics S-2CONNECT Sense Tracking/Monitoring Kit [pdf] User Guide S-2CONNECT Sense Tracking Monitoring Kit, S19P01</p>
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