

Mini Series Temperature Sensors equipped with a battery backup require turning on prior to first use. This can be achieved by opening the back cover and sliding the switch to the on position.

Solar Powered with Battery Backup

3. Product Activation

- Retrofit projects
- Temperature detection
- HVAC optimisation
- Room level, climate monitoring

Typical Applications

- Transmits data wirelessly using the EnOcean® protocol
- EnOcean® security capable
- Dynamically reports changes in temperature

Functionality

- Energy harvesting – powered by ambient light from the surrounding environment
- Battery variation, for robust operation in dark environments
- No wiring required – low cost of installation
- Fast installation time – minimal disruption for retro fits
- Optimal positioning – no wiring constraints

Features and Benefits

A fully wireless, compact temperature sensor for efficient monitoring of ambient temperature. The sensor provides true peel and stick deployment, comes in two variations requiring little to no maintenance and can be rapidly fitted at minimal cost.

2. Product Description



QUICKSTART-GUIDE

Mini Series Temperature Sensor

1. Introduction

It is recommended that you read this Quick Start Guide carefully before using the Mini Series Temperature Sensor.

This quick start guide contains relevant information for all variations of the Mini Series Temperature Sensor. Please check which variation you have prior to use.

Symbols

WARNING
Important information regarding risks.

NOTE
The section contains further information.

Health Risks

Use the device only for its intended purpose. The device is only suitable for indoor use. Avoid exposing the unit to moisture, dirt or dust. Avoid direct sunlight and other sources of heat.

Avoid placing the device in a metal case. Such placement will affect the ability to communicate with other devices. Do not open the device! In case of an error, please contact the manufacturer.

For more information please visit:
<http://www.pressac.com>

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The Mini Series Temperature Sensor is delivered in standard mode with encryption turned off.

- Standard mode activation is indicated by the LED flashing once.
 - Secure mode activation is indicated by the LED flashing twice.
- The Mini Series Temperature Sensor can be switched between standard mode and secure mode by pressing the learn button for at least 10 seconds. The devices mode will be changed when the learn button is released.

NOTE: Before changing the Mini Series Temperature Sensors operating mode please make sure the device is removed from all receiving devices it has been configured to work with. Failure to do so could result in ignored telegrams.

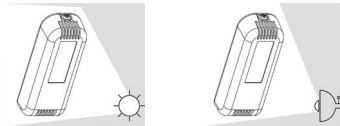


Switching Between Modes

<https://www.enocean.com>

The Mini Series Temperature Sensor includes an enhanced secure mode. When secure mode is turned on all device communication is encrypted by AES128. For more information, EnOcean's full security specification can be found on <https://www.enocean.com>

4. Secure Mode



Prior to first use, the Mini Series Temperature Sensor requires its power reserve charging this can be achieved by placing the sensor in illuminance of at least 200lux for a minimum of 5 minutes.

Solar Powered Only

TECHNICAL SPECIFICATIONS	
Wireless Protocol	EnOcean
Measurement Range	Temperature 0°C to 40°C
Accuracy	+/-0.5°C between 17°C and 27°C Else +/- 1°C between 0°C and 40°C
Transmission Rate (Dynamic)	100 seconds if Temperature change > 0.5°C Else every 15 minutes
Battery Life* (Battery Back-up only)	Up to 10 Years
Battery Type (Battery Back-up only)	CR2354
Repeater	No
Telegram	4BS
Environment	Indoor
Enclosure Material	PC-ABS
Calibration	Factory Calibrated
Operating Temperature Range	-20°C to +60°C
Storage Temperature Range	-20°C to +60°C
Dimensions	76.5mm x 28mm x 17.5mm approx
EEP	A5-02-05

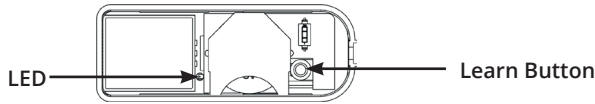
*Typical life expectancy of the battery is dependent on ambient light conditions and use-case.

5. Commissioning

Adding the EnOcean Mini Series Temperature Sensor to an EnOcean radio network.

i **NOTE:** If including a Mini Series Temperature Sensor in secure mode please ensure your receiving device is EnOcean security compatible.

1. Ensure your Mini Series Temperature Sensor is within range of your EnOcean gateway or receiving device.
2. Place your EnOcean gateway or receiving device into inclusion mode.
3. Press the Learn button on the back of the Mini Series Temperature Sensor the LED will blink once. The device will now transmit a teach in telegram.

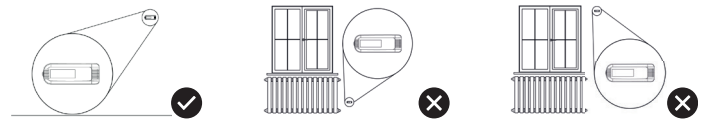


4. Wait for the teach in process to end. Please allow extra time if using secure mode.
5. Successful inclusion will be indicated on the EnOcean gateway or receiving device.

The Mini Series Temperature Sensor can also be included into your EnOcean network manually. This can be achieved using the unique EnOcean ID and the EnOcean Equipment Profile (EEP) of the Mini Series Temperature Sensor. The EnOcean ID and EEP are printed on the Mini Series Temperature Sensors product label.

6. Positioning of the Temperature Sensor

Place the Mini Series Temperature Sensor in an area of average room temperature keeping away from radiators, windows, ventilation units, cooling systems and any excess air movement. Ensure the solar panel gets as much light as possible.



i **NOTE:** Installing the Mini Series Temperature Sensor on the inside of an outside wall or directly over pipe work concealed in walls may negatively impact temperature measurement.

7. Physical Installation

Once you have identified your desired surface installation of the Mini Series Temperature Sensor can be done using the adhesive pads or screws provided.

Adhesive Pads Installation

1. Ensure the surface is clean and dry. Use the included alcohol wipe to prepare the surface if required.
2. Stick the included self-adhesive pads to the bottom of the Mini Series Temperature Sensor.
3. Peel off the self-adhesive pads protection film.
4. Carefully stick the Mini Series Temperature Sensor to the desired surface.

Installation Using Screws

1. Remove the screw from the side of the unit and lift the Mini Series Temperature Sensor from its backplate.
2. Using the screws provided screw the Mini Series Temperature Sensor back plate to the desired surface.
3. Place the Mini Series Temperature Sensor onto the backplate.
4. Replace the screw into the side of the unit and securely tighten.



S. 4

S. 5

8. Changing the Battery

Estimated battery life using default settings assuming average use can be found in the technical specification section of this document. Changing the battery in the Mini Series Temperature Sensor can be done by following the steps below.

1. Remove the screw from the side of the unit and lift the Mini Series Temperature Sensor from its backplate.
2. Unplug the connected daughter board by gently lifting upwards.
3. Replace the battery in the battery holder.
4. Plug the daughter board back into the main board.
5. Place the Mini Series Temperature Sensor onto the backplate.
6. Replace the screw into the side of the unit and securely tighten.



Declaration Of Conformity

Pressac Communications Limited (the original manufacturer) declares that the product branded



• Pressac Sensing Mini Temperature Sensor - 868MHz satisfies the requirements of RED 2014/53/EU and has been independently tested and found compliant with the essential requirements of:

- BS EN 61326:2006 Electromagnetic Compatibility
- BS EN 60950-1:2006+A2:2013 Information technology equipment. Safety. General requirements

FCC Declaration

Pressac Communications Limited (the original manufacturer) declares that the product branded



• Pressac Sensing Mini Temperature Sensor - 902MHz

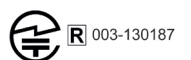
Contains FCC ID: SZV-STM333U
Contains IC: 5713A-STM333U
Contient le module d'émission IC: 5713A-STM333U

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (i) this device may not cause harmful interference and (ii) this device must accept any interference received, including any interference that may cause undesired operation.

Japanese Radio Law

• Pressac Sensing Mini Temperature Sensor - 928MHz

The enclosed device complies with Japanese radio law and is certified according to ARIB STD-T108. Operation is subject to the following two conditions:



(i) this device may not cause harmful interference and (ii) this device must accept any interference received, including any interference that may cause undesired operation.

Where applicable the original Certificates of Compliance are held at Pressac's business address, with copies being available on request.

Robert Smith, Technical Director, Nottingham, March 2018.

S. 7

S. 6