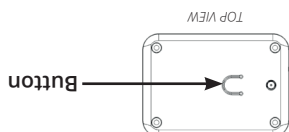


Level 2
Level 2 repeating can be activated by holding the button and releasing when the LED flickers after 10 seconds then pressing the button twice within 2 seconds. Successful activation will be indicated by the LED turning RED for one second.

Level 1
Level 1 repeating can be activated by holding the button and releasing when the LED flickers after 10 seconds then pressing the button once within 2 seconds. Successful activation will be indicated by the LED turning GREEN for one second.

Changing Repeater Level

- Level 1 is indicated by the LED turning GREEN for one second.
- Level 2 is indicated by the LED turning RED for one second.



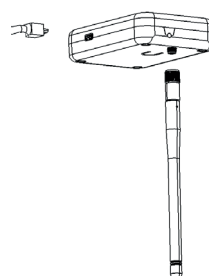
The repeater level set on the Pressac EnOcean Repeater can be checked by holding the button and releasing when the LED flickers green after 3 seconds. The current repeater level will be shown when the Pressac EnOcean Repeater button is released.

Checking Repeater Level

The Pressac EnOcean Repeater can operate as either a Level 1 or Level 2 EnOcean Repeater. The Pressac EnOcean Repeater will repeat all secure and non-secure EnOcean telegrams. Level 1 repeats only telegrams received from a device and Level 2 will repeat all telegrams including Level 1 repeated telegrams.

5. Repeater Level

TECHNICAL SPECIFICATIONS	
Wireless Protocol	EnOcean
Power Supply	5V Micro USB - Mains adaptor
Security and Encryption	Repeats Encrypted EnOcean Telegrams
Repeater 868 / 902 MHz	Level 1 & Level 2
Repeater 928 MHz	Level 1
Selective Repeating Limit	60 Devices
Environment	IP2X
Mounting	Screw
Enclosure	ABS, White Polished
LED	Red/Green - Bi Colour LED
Antenna	1/2 Wave SMA
Calibration	Not Required
Operating Temperature Range	0°C to +40°C
Storage Temperature Range	-20°C to +55°C
Case Dimensions	93mm x 65mm x 28mm approx
Antenna Dimensions	Length 141mm approx
EnOcean	TCM 300 868MHz TCM 300U 902MHz TCM 400J 928MHz



NOTE: Always use the approved antenna and power supply provided with the unit. The use of non-approved accessories will invalidate warranty and may be contrary to the radio license in your country.

The Pressac EnUcean Repeater requires its antenna attaching and power lead plugging in prior to use.

4. Product Activation

Installation of the Pressac EnOcean Repeater should be done using the screws provided. Care should be taken to mount the Pressac EnOcean Repeater away from any metal objects, surfaces or sheets.

3. Physical Installation and Positioning

The Pressac EnOcean Repeater is capable of repeating any valid EnOcean telegram. Each time a telegram is repeated the Pressac EnOcean Repeater LED will flicker green.

Product Operation

The Pressac EnOcean Repeater is a USB powered device which receives telegrams and re-sends them to enhance the distance between EnOcean sensors and receiving devices. In 868MHz and 902MHz variants, the Pressac EnOcean Repeater can act as both a Level 1 or Level 2 repeater and a Level 1 only repeater in 928MHz.

2. Product Description



QUICKSTART-GUIDE

Pressac EnOcean Repeater

1. Introduction

It is recommended that you read this Quick Start Guide carefully before using the Pressac EnOcean Repeater.

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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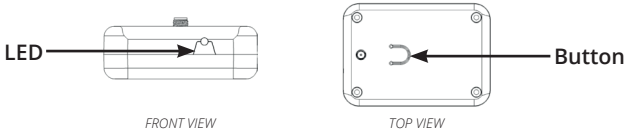
6. Link Table for Selective Repeating and Ignoring

The Pressac EnOcean Repeater has a link table which devices can be added to. All devices in this table can be configured to be the only devices repeated (link table action = repeat), or these devices can be ignored and everything else repeated (link table action = ignore).


7. Adding Devices to the Link Table

 **NOTE:** Adding a device to the Pressac EnOcean Repeater will activate selective repeating. Once activated this can only be switched off using the ProComm tool or performing a factory restore.

- 1. Ensure your device is within range of your Pressac EnOcean Repeater.
- 2. Press the button on the Pressac EnOcean Repeater once, this will activate listening mode indicated by the LED blinking green.



- 3. Send a teach in telegram from your device.
- 4. Successful device inclusion will be indicated by the LED flickering GREEN rapidly for 3 seconds.
- 5. Successful device removal will be indicated by the LED flickering RED rapidly for 3 seconds

 **NOTE:** If the Pressac EnOcean Repeater does not receive a teach in telegram from a device within 30 seconds after pressing the button, listening mode will time out. Each time a device is added the 30 second timer is restarted.

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9.2 Radio Link Test Mode

This mode can help with both commissioning or range planning. When the Pressac EnOcean Repeater has radio link test mode switched ON, every telegram received from a device in the link table will be replied to with a standard EnOcean signal telegram which contains signal strength observed by the repeater.

9.3 Link Table Action

When set to REPEAT all devices added to the link table will be the only devices repeated. When set to IGNORE the Pressac EnOcean Repeater will ignore all devices in the link table and repeat everything else.

9.4 Link Table

With the link table switched OFF the Pressac EnOcean Repeater will repeat every telegram it receives. Switching ON the link table will enable selective repeating or ignoring depending on the link table action.


10. Restore Factory Settings

A factory restore will remove all devices from the link table and reset all settings and remote unlock codes back to default. This can be initiated by pressing and holding the button for 30 seconds.

While a restore is in progress the LED will flash red four times followed by a GREEN LED flicker if successful or a red LED flicker if unsuccessful.

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8. Remote Management and Commissioning (ProComm)

 **NOTE:** The default unlock code for the Pressac EnOcean Repeater is 87735522.

8.1 Adding Devices to the Link Table via ProComm

Devices can be added to the Pressac EnOcean Repeaters link table over the air using the Pressac ProComm tool.


8.2 Remote Learn

The Pressac EnOcean Repeater can be sent into listening mode over the air using the Pressac ProComm tool.

8.3 Action Command

Sending the Action command will help identify the Pressac EnOcean Repeater by alternately flashing the LED red and green for 4 seconds.

9. Configurable Options via Remote Commissioning

 **NOTE:** A copy of the latest device description file can be found on <http://www.pressac.com>.

OPTION	CONFIGURABLE	DEFAULT
Repeater Level 868MHz/902MHz	LEVEL 1 / LEVEL 2	2
Repeater Level 928MHz	LEVEL 1	1
Radio Link Test Mode	ON/OFF	OFF
Link Table Action	REPEAT/IGNORE	REPEAT
Link Table	ON/OFF	OFF

9.1 Repeater Level

Configurable over the air Level 1 repeats only telegrams received from a device and Level 2 will repeat all telegrams including Level 1 repeated telegrams.

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Declaration Of Conformity

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



- Pressac EnOcean Repeater - 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 EnOcean Repeater - 902MHz

Contains FCC ID: SZV-TCM300U
Contains IC: 5713A-TCM300U
Contient le module d'émission IC: 5713A-STM300U

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 EnOcean Repeater - 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 2019.

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