

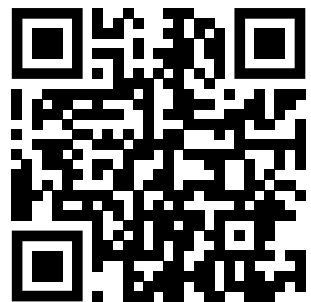


User manual

Tibber Pulse Bridge

1. Download the Tibber app

Search for Tibber in the App Store/Google Play Store or scan the QR code.



2. Create your Tibber account

Create an account or log in if you have one already.

3. Pair the Pulse Bridge

Find the type of Pulse you'd like to connect to your bridge in the Power-ups section of the Tibber app and get started!

1. IMPORTANT SAFETY INSTRUCTIONS



Read these instructions carefully and keep them for future reference. If this product is passed to a third party, then these instructions must be included.

When using electrical devices, make sure to always follow basic safety precautions to reduce the risk of fire, electric shock, and/or injury to persons, including the following:

- This equipment is not suitable for use in locations where children are likely to be present.
- Children should be supervised to ensure that they do not play with the product.
- Use approved, compatible accessories only.
- Do not expose the product to heat, flames, humid conditions or extreme cold.
- Please ensure to review not only this manual but also any other manuals accompanying products bundled with the product.
- Do not drop, strike or shake the product severely. It may harm the internal circuit boards of the product.
- Do not expose the product to direct sunlight.
- Do not use the product in wet environments. The product is not waterproof.
- Do not disassemble the product.
- Only authorized personnel should service the product and its accessories. Faulty installation or service may result in accidents and consequently invalidate the warranty.
- If you suspect damage to the product, discontinue the use immediately.
- No liability will be accepted for damages resulting from improper use or non-compliance with these instructions.

WARNING Risk of injury or damage!

Make sure to inspect the product before use. If you spot any physical damage to the product, stop the installation process immediately and reach out to us via the chat in our app/on our website or via hello@tibber.com.

CAUTION Risk of damage!

Avoid placing the product in an environment that's humid or outside of the specified temperature range (-20 °C to 50 °C); this might reduce its life span or cause malfunctions. The product is not waterproof; never place it outdoors in the rain or snow. Don't open the product, drop it or expose it to any other type of shock to avoid damage.

1.1. Radio frequency (RF) exposure

- The product emits radio frequency electromagnetic fields during operation.

2. Intended use

- This product is intended to wirelessly collect data from the Tibber Pulse and make it available in the Tibber app.
- This product is intended for household use only. It is not intended for commercial use.
- This product is intended to be used in dry areas only.
- No liability will be accepted for damages resulting from improper use or non-compliance with these instructions.

2.1 Before first use

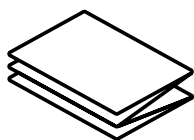
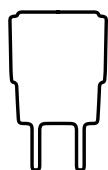
DANGER Risk of suffocation!

Keep any packaging materials away from children.

- These materials are a potential source of danger, e.g. suffocation.
- Check the product for transport damages.
- Remove all the packing materials.

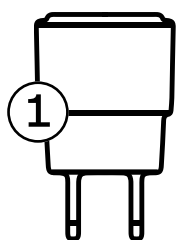
3. Description of the product

3.1 What's in the box

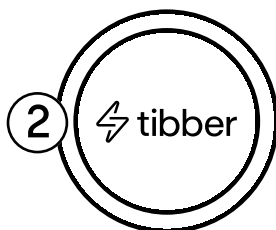


Pulse Bridge User manual

3.2 Product overview



① Plug



② LED ring

3.3 Technical details

The product is powered by a regular wall socket. It receives data from Tibber Pulse devices (CT and IR at the time of writing). This data is sent to our servers over a Wi-Fi connection and is then visible in the Tibber app.

If you love diving into data, check out our API at <https://developer.tibber.com>.

3.4 Simplified EU Declaration of Conformity



Hereby Tibber AS declares that the radio equipment type ITEM No. Pulse Bridge is in compliance with Directive 2014/53/ EU and 2014/30/EU.

The full text of the EU declaration of conformity is available at https://pulse.tibber.com/bridge_conformity.

3.5 Technical data

Pulse Bridge

Device name: Bridge

Model: TJH02

Technical life span: > 5 years

Power usage: 0.5 W during pairing
0.2 W during normal operation

Frequency band: 863-870 MHz
2400-2483.5 MHz

Maximum power transmitted: 13 dBm (863-870 MHz)
20 dBm (Wi-Fi)

Weight 40 g

Dimensions (HxWxD): 42 x 42 x 70 mm

Ingress protection (IP): IP40 (not waterproof)

Temperature range: -20 °C to 50 °C

Input voltage (nominal): ~230 V

Rated frequency: 50 Hz

Rated current: ~10 mA

Input voltage range: ~90-254 V

Directives: RED: 2014/53/EU
RoHS: 2011/65/EU

Approvals: CE

Equipment class: Class II

4. Installation and setup

To install the Pulse Bridge, follow the instructions on the first page of this manual. You'll be guided through the pairing process in the Tibber app. After that, it's time to play around! Turn on your toaster or coffee machine and check the effect on your energy consumption.

5. Troubleshooting

5.1 Explanation of LED signals on the Pulse Bridge

Signal	Meaning
White	Bridge is starting
Green	Bridge is ready to be paired
Green breathing	Bridge is connected to a phone (usually during pairing)
Orange blinking	Bridge is updating firmware, do not disconnect from power
Blue	Bridge is connected to the Tibber server (normal operation)

5.2 Problem solving from LED signals

Signal	Problem & solution
Red-purple blinking	Bridge couldn't connect to the Wi-Fi. Usually, this problem occurs when your Wi-Fi signal is not strong enough. Try moving the bridge closer to your router. If your Wi-Fi settings have been changed recently, follow the steps under 5.3 and pair the bridge again.
Red-yellow blinking	Bridge is connected to the Wi-Fi but unable to reach the Tibber server. Try to reset the bridge and your router. If the problem persists, follow the steps under 5.3 and pair the bridge again.

If you see any other LED signals or if you're experiencing any problems, please have a look at https://pulse.tibber.com/pulse_bridge_troubleshoot. If you're experiencing any problems during the pairing process, it's worth giving it another try first. If the problem persists, you can always reach out to us via the chat in our app/on our website or via hello@tibber.com

5.3 Entering & quitting pairing mode

To put your bridge into pairing mode, unplug it from the socket and plug it in again. The bridge will light up white, then yellow. Unplug and plug in once more. Once the bridge lights up white and then green, it's ready to be paired in the Tibber app.

To get your bridge out of pairing mode, keep it unplugged from the socket for at least 10 seconds. If you plug the bridge back in and the light is still green, the bridge misses configuration and needs to be paired in the Tibber app again.

5.4 Resetting the Pulse Bridge

In rare cases, you may want to reset your bridge. Unplug the bridge from the socket and plug it in again for 5 consecutive times. After plugging in the first time, the bridge will light up white, then yellow. The next times, the bridge will light up white, then green every time you plug it back in. After plugging in the fifth time, the bridge will light up white, then purple. Wait for 15 seconds and unplug and plug it in again for a final, sixth time. Your bridge should now be reset to its factory settings.

5.5 Cleaning and maintenance

DANGER! Risk of electric shock!

- Switch the bridge off before cleaning.
- During cleaning, do not immerse the electrical parts of the product in water or other liquids. Never hold the product under running water.

Cleaning

- To clean the product, wipe with a soft, slightly moist cloth.
- Dry the product after cleaning.
- Never use corrosive detergents, wire brushes, abrasive scourers, metal or sharp utensils to clean the product.

Storage

- Store the product in its original packaging in a dry area. Keep away from children and pets.
- Do not store the product in temperatures lower than -20°C or greater than 50°C .

Maintenance

- Any other servicing than mentioned in this manual should be performed by a professional repair center.

6. Disposal

6.1 Disposal of electronic components



The Waste Electrical and Electronic Equipment (WEEE) Directive aims to minimize the impact of electrical and electronic goods on the environment, by increasing re-use and recycling and by reducing the amount of WEEE going to landfill.

The symbol on this product or its packaging signifies that this product must be disposed separately from ordinary household wastes at its end of life. Be aware that it's your responsibility to dispose of electronic equipment at recycling centers in order to conserve natural resources. Each country should have its collection centers for electrical and electronic equipment recycling. For information about your recycling drop off area, please contact your related electrical and electronic equipment waste management authority, your local city office, or your household waste disposal service.

6.2 Disposal of packaging waste

The packaging is made of environmentally friendly materials, which you can dispose of at your local recycling facility. By properly disposing of the packaging and packaging waste, you help avoid possible environmental and public health hazards. Nature will be thankful!

7. Latest version and comments

In case you're reading this in a different time and age, you can find the latest version of this manual at https://pulse.tibber.com/pulse_bridge_manual.pdf (available in multiple languages).

If you have any comments or questions, you can always reach out to us via the chat in our app/on our website or via hello@tibber.com.



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