



OPERATING MANUAL FOR POWERCRANK POWER METER



This product is ANT+ certified.

Visit www.thisisant.com/directory,

to display a list of compatible products and applications.

ANT+ device profile:



1. General information about the POWERCRANK power meter

POWERCRANK is a device used to measure the power generated by a cyclist. Data registered and processed by the POWERCRANK device is made available through ANT+ and Bluetooth Smart protocol. The POWERCRANK device is compatible with bicycle computers and mobile devices supporting ANT+ or Bluetooth Smart protocols (a list of compatible devices is available on inpeak.pl/en/support_en/).

2. IMPORTANT information for the user

POWERCRANK device should not be washed with pressure washers that generate high pressure water jet. Directing the water jet to the device can damage it.

Do not use abrasive detergents to clean the crank with the POWERCRANK power meter, which may cause damage to the housing and electronic system.

The battery life may be shorter at low temperatures than when the device is operated in conditions that are close to room temperature.

Calibration (see point 6) should be carried out relatively often, especially after changing weather conditions - this will ensure correct indication of the POWERCRANK power measurement. Calibration should be carried out each time after disassembly and assembly of the device on the bike (screwing to the axis of the crank) and battery replacement.

3. Technical data

Communication:	ANT+, Bluetooth Smart
Power supply:	1 × CR2032 battery
Battery life:	max 200h
Measurement accuracy:	±2%
Weight:	serial weight of the left crank arm +12g
Tightness:	IP67
Measuring range:	0–2000W
Cadence range:	20 – 200 RPM
Operating temperature:	-5°C to +50°C
Storage temperature:	-20°C to +50°C

4. Device assembly/first start/battery replacement

- Unscrew the cover in accordance with the arrow placed on its front (see photo 1).
- Insert the CR2032 battery into the cover of the POWERCRANK device as illustrated on the cover.
- Make sure the o-ring is in the right place (see photo 2,3).
- Make sure that dirt (mud, water, dust) does not get into the battery compartment – if it got, remove it carefully using a soft cloth or a cotton bud.
- Insert the cover into the housing so that the red marks on the housing and the cover coincide (see photo 4).
- Push the cover into the housing and turn the cover against the opening direction (see photo 5).
- Install the left arm in accordance with the manufacturer's instructions, tightening it with the strength determined by the manufacturer. Use a torque wrench for this purpose (see photo 6).

h. Mount the pedal.

- After each assembly of the crank or battery replacement, calibrate the device according to point 6.

5. Compatibility of the POWERCRANK device with bicycle computers and other mobile devices

POWERCRANK is compatible with bicycle computers and mobile devices supporting ANT+ or Bluetooth Smart protocols. A detailed list of compatible devices can be found on the manufacturer's website inpeak.pl/en/support_en/.

ANT+ pairing

Each POWERCRANK device has its own unique ANT+ number. The number is placed on the crank arm and on the packaging. The number should be entered in the field intended for that in the bicycle computer. A description of this procedure can be found in the bicycle computer manual.



Bluetooth Smart pairing

Connection with Bluetooth-equipped mobile devices is achieved by activating the Bluetooth function, and then launching a training mobile application that supports the "Cycling Power" sensor via Bluetooth Smart. A description of this procedure can be found in the manual of the mobile device.

6. Calibration of POWERCRANK device on the bicycle

- Put the bicycle in the driving position (see photo 7).
- Start the device by turning the crank twice back.
- Make sure that the battery is not discharged.
- Position the left crank arm vertically with the pedal down (6 o'clock) according to Fig. 7 and make sure that no object touches the left arm. The pedal must be screwed to the left arm.
- Pair the bicycle computer with POWERCRANK by

entering the ID number placed on the crank or on the packaging in the ANT+ options.

- Run the ZERO OFFSET calibration function on the bicycle computer.
 - A message indicating that the calibration has been completed, and the value of the calibration process, which should be in the range of -5 to 5, will appear after a while. This process can take up to several dozen seconds. If this value does not fall within the given range, contact support@inpeak.pl.
- After the calibration process, the device is ready for cycling.

NOTE:

Calibration should be performed relatively frequently, especially after changing the weather conditions – this will ensure correct indication of POWERCRANK power measurement. Calibration should be carried out each time after disassembly and assembly of the device and replacement of the battery.

7. Software update

Software updates are posted on the manufacturer's website in the support tab inpeak.pl/en/support_en/. POWERCRANK supports the over-the-air (OTA) - wireless software update. More information can be found on the manufacturer's website.

8. Cleaning/care of the device

For cleaning, use water with mild cleaning agents, e.g. soap, lotion, shampoo for bicycles washing, etc.

Do not use pressure washers for POWERCRANK device washing (see point 2).

Do not use aggressive substances for cleaning - solvents, etc.

9. Recycling



Protect the environment! Electronic equipment does not belong to household garbage. Use the collection points provided for taking off the electrical equipment and return the equipment which will no longer be used there.

Information on where to dispose the used equipment can be obtained at regional municipal offices or in the municipal administration.

10. Warranty conditions

Inpeak s.c. with registered office at: ul. Zabrodzka 40/2, 52-336 Wrocław, makes the warranty on the POWERCRANK device in its original packaging ("POWERCRANK product"), including material defects and performance defects that appear during normal product use in accordance with the instructions for use, technical data and other published guidelines concerning the POWERCRANK Product, for a period of 24 months from the date of the original retail purchase made by the end-user buyer ("Warranty period"). The user may exercise the powers conferred on under this warranty for the POWERCRANK product through the service points indicated by Inpeak s.c. in this document or on the website www.inpeak.pl/en/. In the event of any material defects or manufacturing defects, the user may direct the claims to Inpeak s.c. even if purchased a POWERCRANK product from another re-

tailer, if the warranty period has not yet expired since the date of purchase of the new product. The condition of the warranty is to show the proof of a new product purchase.

This warranty does not apply to the non-branded INPEAK s.c. equipment, even in the package or sold with the POWERCRANK product. This warranty does not apply to parts that wear out over time, such as batteries or protective coatings, unless damage occurred as a result of material defects or manufacturing defects; minor damage, including scratches, dents or cracks of plastic elements; damage caused by using the product with a third party product that was not delivered with the POWERCRANK product; damage caused by accident, abuse, improper operation, improper maintenance or improper assembly, fire, flood or other external causes; damage caused by using POWERCRANK product in a manner inconsistent with the instructions for use, technical data or other instructions regarding

the Product; damage caused as a result of servicing by non-representatives of Inpeak s.c.; mechanical damage; in the event of removal or obliteration of any POWERCRANK serial number and if Inpeak s.c. will receive information from the competent public authorities that the POWERCRANK product is stolen and if the user is unable to prove in any other way that is a legitimate user of the product (e.g. by presenting a proof of purchase).

The warranty service for POWERCRANK product may only be carried out by Inpeak s.c. or service provider authorized by Inpeak s.c.

After performing the warranty service, the POWERCRANK product will be returned to the user in the configuration in which it was originally sold, including the relevant updates. As part of the warranty service, Inpeak s.c. may install software updates in POWERCRANK product, which will require the user to self-update to the latest version of

the software provided on the manufacturer's website in the tab inpeak.pl/en/support_en/.

The date of Inpeak s.c. decision as to the manner of filing the notification resulting from the warranty is 14 days from the date of POWERCRANK product delivery to the manufacturer's service. In the case of unjustified notification of the defect, Inpeak s.c. may charge the user with the costs of expertise, tests and transport of equipment.

If, under this warranty, the user makes a claim in accordance with this warranty, Inpeak s.c. according to its own discretion:

- will repair the POWERCRANK product using new parts or previously used parts that are equivalent to new parts in terms of performance and reliability, or
- will replace the POWERCRANK product with the same model (or, with the user's consent, with a product of similar functionality) manufactured of new and/or previously

- used parts that are equivalent to new parts in terms of operation and reliability, or
- will refund the purchase price in exchange for returning the POWERCRANK product.

After the replacement of the product or part or after a refund, all replacement elements become the property of the user, and the elements replaced or those for which the return was made by Inpeak s.c., become the property of Inpeak s.c.

If in the performance of obligations under the warranty, Inpeak s.c. will provide the user with a defect-free product in exchange for a defective product or will carry out a significant repair of the product covered by this warranty, the warranty period will start again from the moment of delivery of the product free from defects or returning the repaired product to the user. If Inpeak s.c. replace part of the product, then the above provision will apply accordingly

to the replaced part. In the case of repairs that were not significant, the warranty period is extended by the time when the user could not use the product due to a defect.

Under this warranty, the user is only entitled to guarantees and legal remedies, as well as other terms clearly specified in it. This warranty does not exclude or limit any rights under consumer law or generally applicable laws. Inpeak s.c. is not liable for damages not attributable to Inpeak s.c. and for lost profits or benefits. In case of users who are entrepreneurs, claims against Inpeak s.c. due to the statutory warranty are excluded.

None of the resellers, agents and employees of Inpeak s.c. is authorized to change, extend or supplement this warranty. If any of the provisions is found to be unlawful or unenforceable by law, it will be excluded from this warranty without prejudice to the other provisions.

The warranty applies to the countries of the European Union, Switzerland and Norway.

11. Certificates

The device uses two standards of wireless data transmission: ANT+ and Bluetooth Smart. The manufacturer issued the EC Declaration of Conformity on the device, marking the product with the CE mark.

The POWERCRANK product has been fully designed and manufactured in Poland.

12. Information about the manufacturer

Inpeak s.c.
ul. Zabrodzka 40/2
52-336 Wrocław
POLAND
www.inpeak.pl/en/
inpeak@inpeak.pl

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

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