

# **Quick Start Guide**





#### Head Office

228 River Avenue Cochrane, AB Canada T4C 2C1

+1 403.800.3095 www.4iiii.com

Technical support available from 4iiii by email from 9am-5pm Mountain

Email: support@4iiii.com

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#### Important Product Information

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the followings two conditions: (1) this device may not cause harmful interference, and (1) this device must accept any interference neceived, including interference that may cause underlied operation. This product interference neceived, including interference that may cause underlied operation. This product does not contain any user-enviceable parts. Repairs, changes or modifications of this product, not expressly approved by the manufacturer will void the user's authority to operate the equipment under FCC requisitions.

#### IC Compliance

This device compiles with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

#### Declaration of Conformity

4iii Innovations Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. To view the full Declaration of Conformity, go to wave alii conformity.

# Limited Warranty

This product does not contain any user-serviceable parts. For more information, go to www.4iii.

# WARNING!

DO NOT INSTALL THIS
PRECISION POWER METER
ON A CARBON FIBER
CRANK ARM.
DOING SO WILL VOID THE
WARRANTY.

2

## What's in the Rox?

Your Precision™ power meter comes with the following items:

- 1 Precision™ power meter pod with installed battery
- 1 Precision™ installation tool
- 1 Precision™ installation band
- 1 Epoxy adhesive pack
- 1 Epoxy adhesive applicator
- 1 Square of sand paper (1.5" x 1.5")
- 2 Cleaning wipes
- 1 Cable tie
- 1 Extra CR2032 coin cell battery

# Installation Tools

In addition to the contents included with your power meter, you will also need the following:

- Crank removal tool
- Pencil or permanent marker
- · Clean piece of printer paper

# Warnings

- Do not remove the protective tape on the metal plate of the pod until you are ready to apply the epoxy adhesive – removing the tape prematurely will result in contamination of the pod and may interfere with the accuracy and reliability of the power meter
- Once the protective tape on the metal plate of the pod has been removed, do not touch the metal plate or place the metal plate on any surfaces – will result in contamination of the pod and may interfere with the accuracy and reliability of the power meter
- Once the protective tape of the pod has been removed, do not place the protective tape or any other material back on the metal plate – only the provided epoxy adhesive should be placed on the metal plate
- Do not put any other tape on the metal plate on the pod or the crank arm, doing so will contaminate the surfaces and impact the accuracy of the power meter

- Do not open the adhesive pack until you are ready to apply the adhesive for installation – do not use the adhesive if it has been opened for more than 5 minutes
- Only use supplied cleaning wipes for your installation
   do not sand or use any other cleaning agents on the
  pod
- Only apply epoxy adhesive directly to the metal base of the pod – do not put adhesive on your crank arm
- Do not attempt to clean off the excess epoxy with any solvents doing so may damage your power meter
- Only perform the pod installation in temperatures above 20°C or 68°F – doing so will not allow the adhesive to cure properly and will impact the accuracy of the power meter
- Do not expose the pod to temperatures above 50°C or 122°F
- 11. Do not install the pod on uneven or curved surfaces on the crank arm
- Do not install this power meter pod on carbon fiber crank arms

# 1. Compatibility Check

# 1.1 Crank arm compatibility

Ensure that the crank arm has a flat surface for installing the  $Precision^{TM}$  power meter pod.





Fiaure 1.1



Visit <u>www.4iiii.com/precision</u> to see the crank arm compatibility list and make sure your crank arm is listed as being compatible with the Precision™. The compatibility list is frequently updated.

## 1.2 Clearance Check

Make sure there is enough room between the crank arm and the bicycle frame to install the Precision<sup>™</sup> power meter pod. A minimum of 2 mm or 3/32 inch of space is present between the Precision<sup>™</sup> pod and the bike frame

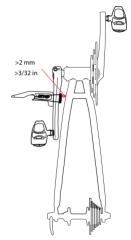


Figure 1.2



Do not remove the protective tape on the metal plate at the bottom of the pod – doing so may interfere with the accuracy and reliability of the power meter.



To avoid contamination of the metal plate, clean your crank arm with soap and water prior to performing the clearance check. Once the crank arm has been thoroughly cleaned, dry the area with a lint-free cloth or shop rag.

4

# 1.2.1 Pod Placement

Locate a flat area on the inner face of the crank arm for installing the Precision<sup>TM</sup> power meter pod. There should be a minimum of 40 mm or 1 5/8 inches between the pod location and the pedal spindle.

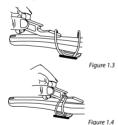


Do not place the pod over uneven surfaces, decals, stickers, rivets, or screw holes on the crank arm. Doing so will interfere with the accuracy of the power meter.

# 1.2.2 Using Installation Tool and Installation Band

Place and hold the metal plate of the Precision  $^{\text{IM}}$  pod on the crank arm as shown in section 1.2.1 and secure the pod on the crank arm using the provided installation tool and installation band.

Pull the installation band around the crank arm and attach them to the hooks on the pod.



Slide the installation tool under the band and fix the pod in place with the installation tool.



## 1.2.3 Clearance Check

With the Precision™ pod fixed onto the crank arm as shown in section 1.2.2, slowly and carefully rotate the crank arm 1 full revolution to ensure there is no interference between the pod and any part of the bicycle frame.

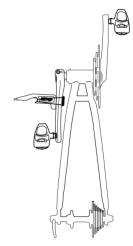


Figure 1.6



If the pod interferes with the frame or any other components on the bicycle, do not proceed further with the installation. Contact your retailer for assistance. If your pod was purchased directly from 4iiii Innovations, contact 4iiii online at <a href="www.4iiii.com/support/software-and-documentation">www.4iiii.com/support/software-and-documentation</a>.

#### 1.2.4 Marking Install Location

With the Precision<sup>™</sup> pod fixed onto the crank arm as shown in section 1.2.2, place a small mark on your crank using a pencil or permanent marker adjacent to the center mark on the pod. This is use to mark the location of the pod for installation using the provided epoxy adhesive.

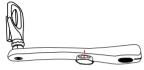


Figure 1.7

# 2. Pod Installation

# 2.1 Install Location

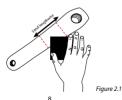
Prior to installing the Precision™ power meter on your crank arm, ensure the pod has the necessary clearance for the bicycle as shown in igure 1.2, in section 1. Once a suitable location for the pod has been found, mark the install location as shown in section 1.2 4.

#### 2.2 Preparing Crank Surface

Before the Precision™ pod can be adhered to the crank arm, the crank arm surface must be sanded and thoroughly cleaned.



Do not open or mix the adhesive pack until you are ready to apply the adhesive for installation – do not use the adhesive if it has been opened for more than 5 minutes.



2.2.2 Clean Crank Arm

Thoroughly clean the crank arm with soap and water to remove all dust and residue from sanding. Allow the crank arm to fully dry before adhering the pod.



Do not attempt to dry the crank arm with paper towel or a cloth that may leave lint or other particles on your crank. To reduce drying time, you may use a lint free shop towel to dry the crank surface.

# 2.3 Adhering the Pod

Before adhering the pod, ensure the following items are readily accessible:

- Precision™ pod
- Precision™ install band
- Precision™ install tool
- · Cleaning wipes (2x)
- Epoxy adhesive packs
- Adhesive applicator
- Clean printer paper



Do not open or mix the adhesive pack until you are ready to apply the adhesive for installation – do not use the adhesive if it has been opened and/or mixed for more than 5 minutes.



Only perform the pod installation in temperatures above 20°C or 68°F – doing so will not allow the adhesive to cure properly and will impact the performance and reliability of the power meter.

## 2.3.1 Prepare Adhesive

Tear open the two epoxy adhesive packets squeeze the adhesive onto a clean piece of printer paper. Mix the adhesive thoroughly with the adhesive applicator.

9

## 2.3.2 Wine Crank Arm

Open one of the cleaning wipes and wipe the installation location of the crank arm.



Only use supplied cleaning wipes for your installation – do not sand or use any other cleaning agents on the pod.

# 2.3.3 Remove Protective Tape

Remove the protective tape on the metal plate of the pod.



# 2.3.4 Apply Adhesive

Using the adhesive applicator, spread the mixed epoxy adhesive onto the metal plate of the pod. Ensure the entire metal plate has a uniform layer of adhesive material.



Figure 2.3



Only apply epoxy adhesive directly to the metal base of the pod – do not put adhesive on your crank arm

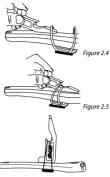
#### 2.3.5 Fix Pod on Crank Arm

Place and hold the Precision™ pod on the install location as marked on the crank arm in section 1.2.1 and secure the pod on the crank arm using the provided installation tool and installation band.

Pull the installation band around the crank arm and attach them to the books on the pod.

10

Slide the installation tool under the band and fix the pod in place with the installation tool.



Fiaure 2.6



Do not attempt to clean off the excess epoxy with any solvents – doing so may damage your power meter.

# 2.3.6 Curing Adhesive

Set the crank arm aside with the pod facing down for **8 hours** in a warm location at room temperature and allow the adhesive to cure.



Do not allow the pod to cure in temperatures below 20°C or 68°F – doing so will not allow the adhesive to cure properly and will impact the accuracy of the power meter.



Do not expose the pod to temperatures above 50°C or 122°F.

-11

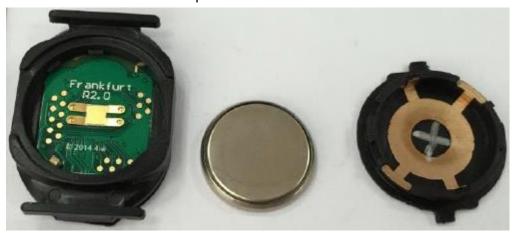
# 4iiii Innovation Inc. Model: PM100

Appendix I

How to install the battery of the precision  $^{\text{TM}}$  power meter PM100



1. Turn the back cover of the product anti-clockwise to unlock it and take it off.



- 2. Remove the used battery and install new battery.
- 3. Fix the back cover to the product.

# **FCC Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protect ion against harmful interference in a residential installation. This equipment generates 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.

This device complies with Part 15 of FCC Rules. Operation is subject to the following two con ditions: (1) This device may not cause harmful interference, and (2)

This device must accept any interference received, including interference that may cause un desired operation.

Note: The manufacturer is not responsible for any radio or TV interference caused by unauth orized modifications to this equipment. Such modifications could void the user's authority to operate this equipment.

FCC RF Radiation Exposure Statement

The device has been evaluated to meet general RF exposure requirement. The devic e can be used in portable exposure condition without restriction.

# **IC Compliance**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

# **Declaration of Conformity**

4iiii Innovations Inc. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. To view the full Declaration of Conformity, go to <a href="https://www.4iiii.com/compliance">www.4iiii.com/compliance</a>.

# **Limited Warranty**

This product does not contain any user-serviceable parts. For more information, go to www.4iiii.com/legal-policies.