

SRMPM9 USER MANUAL

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Congratulations, you are now the owner of the SRM PowerMeter9!

This manual provides instructions on features, important safety information and how to set up and use your SRM PowerMeter9.

How does the PowerMeter 9 work? The PowerMeter measures the force applied and the cadence in real-time then calculates the torque and power, sending it to your bike computer. PowerMeter 9 is ANT+™ and Bluetooth® 4.0 or higher compatible. With its rechargeable battery and an integrated robust design it is made for many years of use. Please follow each step carefully in this manual! Enjoy your training with PowerMeter 9!

INCLUDED

- SRM PowerMeter9
- 3m SRM-USB cable
- (optional) cranks, spindle, chainring(s)

SAFETY / WARNINGS

MARNING - TO AVOID SERIOUS INJURIES

Be sure to follow the installation instructions of the manufacturer of your cranks. If you are using an SRM Origin or Science Track PowerMeter and crank, please visit www.SRM.de to find the detailed installation instructions.

WARRANTY

The SRM PowerMeter9 is warrantied to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, SRM will, at its option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the original owner/customer for parts or labour, provided that the customer shall be responsible for any necessary transportation cost. Any damage to the PowerMeter that is not considered normal wear and tare, is not covered by warranty.

Further information and exceptions for which the guarantee does not apply can be found at www.srm.de.

Additionally, SRM reserves the right to refuse warranty claims against products or services that it deems fraudulent. The SRM PowerMeter is defined as: chassis, rechargeable battery, internal electronics, seals, covers.

TECHNICAL DATA

± 1%
IP 67
min. 200mAh rechargeable Lithium-Polymer-battery
3.7 V DC / 5V DC charging
up to 100 hours runtime
-20 / +60°C (-4 / 140°F)
+10 / +45°C (50 / 113°F)
ANT+ [™] 2.4GHz @ 4dbm nominal Bluetooth [®] 2.4GHz @ 4dbm nominal

POWERMETER INSTALL ATION

Be sure to follow the installation instructions of the manufacturer of your cranks. If you are using an SRM Origin or Science Track PowerMeter and crank, please visit www.srm.de to find the detailed installation instructions. Please note that you will not be required to install a cadence magnet, for the PowerMeter 9 to work.

△ IMPORTANT

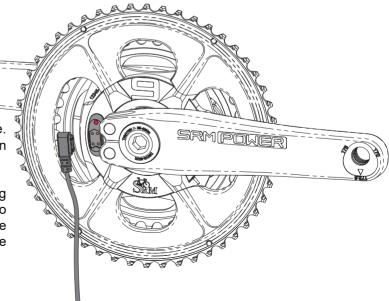
TO ENSURE THE BEST ACCURACY, IT IS IMPORTANT TO SET THE ZERO OFFSET ON A REGULAR BASIS. THIS CAN BE DONE WITH YOUR BIKE COMPUTER OR THE PM9 APP. IT IS IMPORTANT THAT NO LOAD IS APPLIED TO THE POWERMETER DURING CALIBRATION. PLEASE WAIT 10 MINUTES AFTER A HIGH CHANGE IN TEMPERATURE BEFORE SETTING THE OFFSET.

CHARGING THE POWERMETER

The SRM PowerMeter9 has a rechargeable battery which, when fully charged, is sufficient for around 100 hours of riding time. It should be noted that the

PowerMeter has a low power consumption in standby mode. In the case of longer storage periods, this naturally has an impact on the effective runtime per charge.

To prevent damage to the batteries, we recommend charging the PowerMeter before long periods of storage in order to prevent deep discharge. Switching off the magnetless mode will extend the battery life in standby. Please check the charge regularly.



Meaning of the battery status display on your Bike Computer:

NEW	PowerMeter has more than 80% charge
GOOD	PowerMeter has more than 60% charge
ОК	PowerMeter has more than 30% charge
LOW	PowerMeter has more than 20% charge
CRITICAL	PowerMeter has more than 10% charge

Meaning of the PowerMeter LED:

LED BLINKING YELLOW	PowerMeter is activated. The LED blinks for the first 200 revolutions of the crank.
LED BLINKING RED	PowerMeter is charging
LED BLINKING GREEN	PowerMeter is fully charged
LED BLINKING GREEN AND RED	The Zero offset is being calibrated
LED QUICKLY BLINKING GREEN OR RED	Zero Offset calibration was successful or unsuccessful











The SRM PM9 can be **connected to your smartphone** via Bluetooth®.

If you are using Android, please make sure to give the app authorization for location access. This is required for the use of Bluetooth® LE. No information about your location is recorded.



On the **status** page, you get information about the battery level and the signal strength of your PM9. You can adjust the time after which your PowerMeter should **switch to stand-by** mode and switch between **magnetless and magnet cadence** mode.

Here you can also calibrate the PowerMeter's Zero offset.



On the **realtime** page, you can see the performance values currently measured by the PowerMeter.



The **info page** gives you a lot of detailed information about your PM9. In addition, if you have any problems, you can simply send us a diagnostic report so that we can help you quickly and effectively.

What is the difference between magnetless cadence mode and magnet cadence?

In magnetless cadence mode the PowerMeter does not require a magnet on the frame to measure the cadence. If you already have a magnet installed, you can turn off magnetless mode. This will increase the standby time of the Powermeter, but will have a negative effect on the PowerMeters accuracy when you are using oval chainrings.

How do I know if my PowerMeter is running the most recent firmware?

Once you connect your PowerMeter 9 to your mobile app, the app will automatically check the firmware. If there is a new version available, the app will give you a notification. This will require an active internet connection.

What is the "zero offset"?

The zero offset is a value in mV that the PowerMeter is measuring when no torque is applied. Once torque is applied, the offset will rise. It is important to set your zero offset at the beginning of a ride to ensure that your PowerMeter is tared.

What is the "Sensitivity"?

Each PowerMeter has a unique "Sensitivity" value, which is calculated during the calibration of that specific PowerMeter. It is comparable to the "Slope" in older SRM PowerMeters. The unit used to describe sensitivity is μ V/Nm.

Does my PM9 work with a SRM PowerControl 7 or older?

PowerMeter 9 does not work with a PC7 or older, because it is using "Ready Calculated Power" to transmit the data. Older PowerControls only support "Crank Torque Frequency".

Can I use oval chainrings?

Yes, oval rings will not have a negative effect on the PowerMeters accuracy, if you are using the magnetless mode.

This device has been tested and found to comply with 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:

(1) Reorient or relocate the receiving antenna. (2) Increase the separation between the equipment and the receiver. (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. (4) Consult the dealer or an experienced radio/TV technician for help.

Operation is subjected 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. Note: Modification to this product will void the user's authority to operate this equipment.

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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