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> Magene S314 Cadence/Speed Sensor for Cycling, Bike Wireless ANT+/Bluetooth RPM Cadence/Speed Sensor Compatible with Phone APP and Bike Computers, Sports Watch Like Garmin, Onelap etc... User Manual

Magene S314

Magene S314 Cadence/Speed Sensor User Manual

Model: S314 | Brand: Magene

INTRODUCTION

The Magene S314 Cadence/Speed Sensor is a versatile device designed to enhance your cycling experience by providing accurate real-time cadence or speed data. This third-generation sensor features a compact design, improved algorithm, and dual ANT+/Bluetooth compatibility, making it suitable for a wide range of bike computers, sports watches, and mobile applications. This manual provides detailed instructions for installation, operation, maintenance, and troubleshooting to ensure optimal performance of your S314 sensor.

KEY FEATURES

- **Compact and Refined Design:** The S314 features a fully upgraded appearance, 12% lighter in weight and 10% smaller in volume, ensuring better compatibility with various bike frames and disc brake hubs.
- **Brand New Anti-Loss Strap:** Equipped with a double-settled design to prevent loss, even if one part is damaged.
- **Optimized Algorithm:** The third-generation algorithm and millisecond-level motion-sensing chip effectively eliminate interference from road bumps, providing accurate and reliable data.
- **Dual Protocol Compatibility:** Supports both ANT+ and Bluetooth protocols, allowing connection with popular devices like Garmin, Wahoo, Bryton, Zwift, and many more.
- **APP Setting Support:** Easily switch between speed and cadence modes using the Magene Utility APP, offering convenient configuration.
- **Ultra-long Endurance:** Boasts up to 500 hours of battery life, suitable for year-round sports activities.
- **IP66 Waterproof:** Features a close-fitting sealing rubber ring and upgraded contact points for strong waterproof performance, allowing use in rainy conditions.

SETUP

Battery Installation

The Magene S314 sensor uses a CR2032 battery. To install or replace the battery:

1. Gently twist the back cover of the sensor counter-clockwise to open it.
2. Insert the CR2032 battery with the positive (+) side facing upwards. Ensure any plastic insulator is removed if present.
3. Align the cover and twist clockwise to securely close it.

Installation Modes

The S314 sensor supports two operating modes: Cadence mode and Speed mode. Only one mode can be active at a time. To obtain both speed and cadence data simultaneously, two sensors are required.

Cadence Sensor Mode Installation

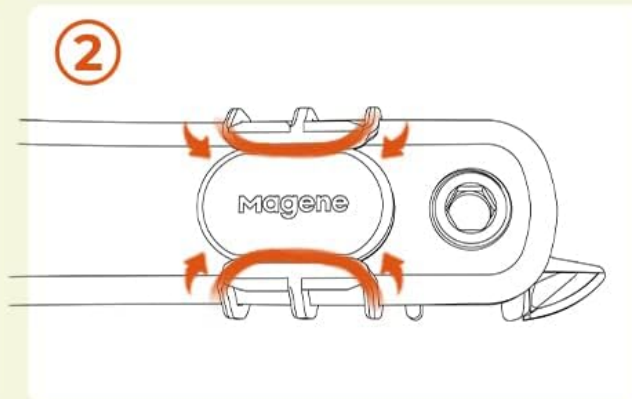
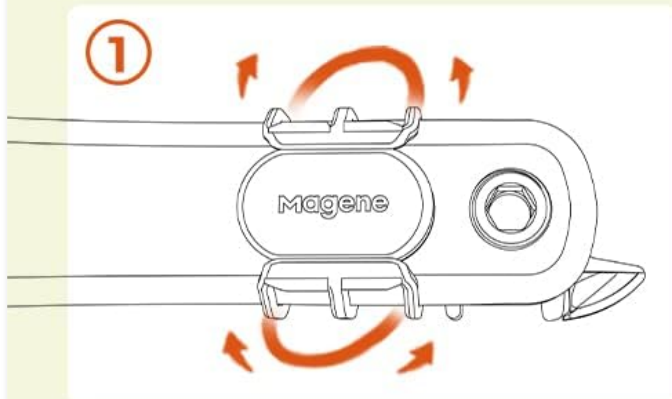
To measure pedaling cadence, install the sensor on the left crank arm:

1. Measure the left crank arm to ensure it meets installation requirements.
2. Tighten the provided strap around the left crank arm.
3. Attach the sensor to the strap's hook, ensuring it is securely fastened.

INSTALLATION INSTRUCTIONS

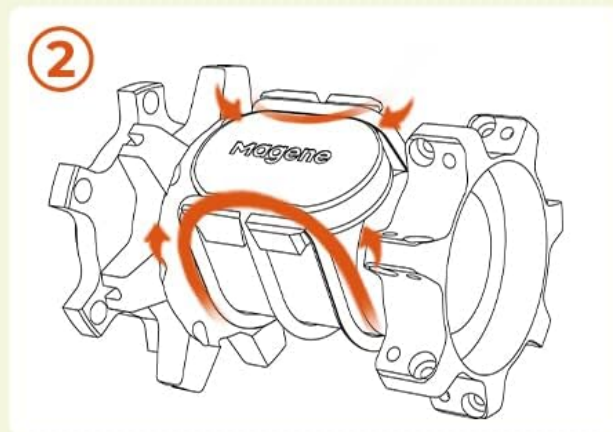
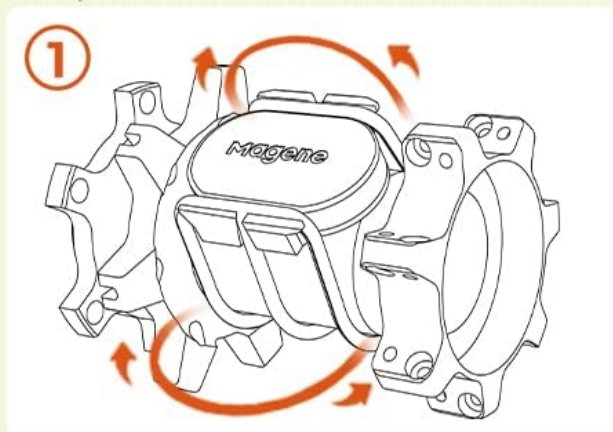
Cadence sensor mode

Measure the left crank arm to check whether it meets the installation requirements. Tighten the strap around the left crank and attach it to the hook on the cadence sensor.



Speed sensor mode

Tighten the strap around the front wheel hub of the bicycle and attach it to the hook on the speed sensor.



* The anti-skidding rubber pad will be used according to actual conditions

Image: Installation instructions for Cadence mode, showing the sensor attached to the left crank arm with a strap.

Speed Sensor Mode Installation

To measure wheel speed, install the sensor on the front wheel hub:

1. Tighten the provided strap around the front wheel hub of the bicycle.
2. Attach the sensor to the strap's hook, ensuring it is securely fastened.

**Note: An anti-skidding rubber pad may be used according to actual conditions for better stability.*

OPERATION

Mode Switching via Magene Utility APP

The S314 sensor's operating mode (Speed or Cadence) can be easily switched using the Magene Utility APP, in addition to

reinstalling the battery.

1. Download and install the Magene Utility APP on your smartphone.
2. Ensure Bluetooth is enabled on your phone and the sensor is active (e.g., by rotating the wheel or crank).
3. Open the Magene Utility APP and connect to your S314 sensor.
4. Within the app's device settings, locate the option to switch between Speed and Cadence modes. Select your desired mode.

SUPPORT APP SETTING, EASILY SWITCH MODE

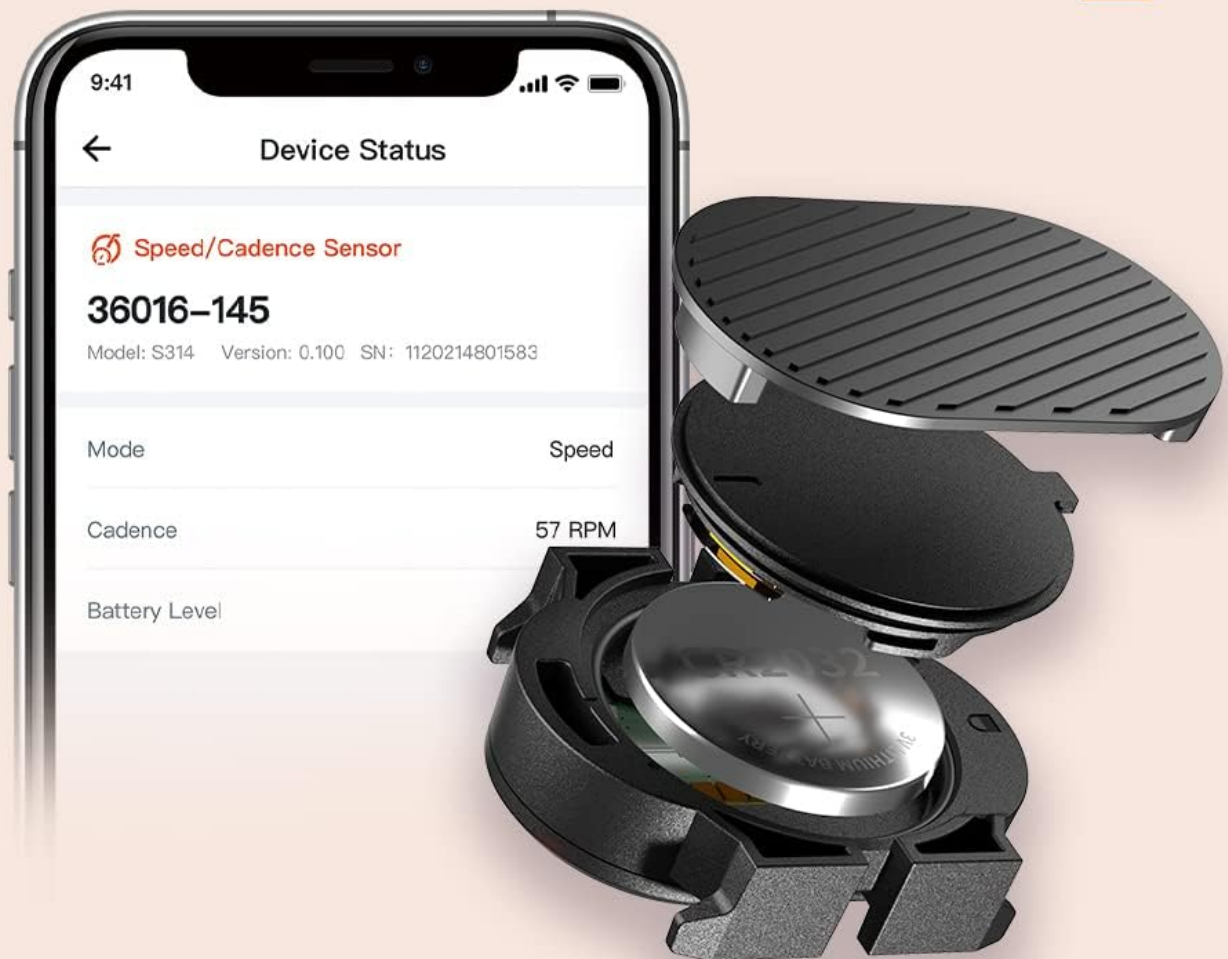


Image: Screenshot of the Magene Utility App showing options to switch between Speed and Cadence modes, with an exploded view of the sensor and its CR2032 battery.

Device Compatibility

The Magene S314 sensor supports dual protocols for broad compatibility:

- **ANT+ Protocol Compatible:** Works with bike computers and watches that support ANT+ protocol, including Magene, WAHOO, Bryton, XOSS, IGPSPORT, Blackbird, and Garmin.
- **Bluetooth Protocol Compatible:** Connects with sports apps and watches that support standard Bluetooth protocols, such

as OnelapFit, Onelap, ZWIFT, CYCLEMETER, OPENRIDER, WAHOO FITNESS, RideWithGPS, TrainerRoad, The Sufferfest, Komoot, Openrider, Kinomap, Peloton, Rouvy, and Fulgaz.

DUAL PROTOCOL



ANT+ protocol compatible

Magene, Garmin, WAHOO, Bryton, XOSS, IGPSPORT and other bike computers and watches that support ANT+ protocol



Bluetooth protocol compatible

OnelapFit, Onelap, ZWIFT, CYCLEMETER, OPENRIDER, WAHOO FITNESS, Suunto, RideWithGPS, TrainerRoad, The Sufferfest, Komoot, Openrider, Kinomap, Peloton, Rouvy, Fulgaz and other sports apps and watches that support standard Bluetooth protocols.



Image: Diagram illustrating the dual ANT+ and Bluetooth protocol compatibility of the Magene S314 sensor, showing connections to bike computers, smartwatches, and smartphone apps.

Product Introduction Video

Your browser does not support the video tag.

Video: An official introduction to the Magene S314 Cadence/Speed Sensor, highlighting its features and benefits for cyclists.

MAINTENANCE

Battery Life

The Magene S314 sensor offers an ultra-long endurance of approximately 500 hours. This data is based on Magene laboratory

testing; actual battery life may vary slightly due to environmental conditions, temperature, and usage factors.

Waterproofing

The sensor is rated IP66 waterproof, meaning it is protected against powerful water jets. Its robust design, including a close-fitting sealing rubber ring and upgraded contact points, ensures reliable performance even when cycling in rainy conditions.



Image: The Magene S314 sensor shown with water splashing, illustrating its IP66 waterproof rating.

TROUBLESHOOTING

If you experience issues with your Magene S314 Cadence/Speed Sensor, consider the following common causes and solutions:

- **Not Paired Correctly:** Ensure your sensor is properly paired with your bike computer or application. If not, data may not be displayed. Try re-pairing the device.

- **Loose or Improperly Installed Sensor:** Check that the sensor is securely attached to the bike. A loose or improperly installed sensor may not function correctly.
- **Damaged Sensor or Low Battery:** The sensor might be damaged, or the battery may be low. Check the sensor's condition and replace the CR2032 battery if necessary.
- **Application Problem:** If using a mobile phone application, there might be an issue with the app itself. Try restarting the application or using a different compatible app to check sensor data.
- **Signal Interference:** Other wireless devices or electronic equipment can interfere with the sensor signal. Try to use the sensor away from other potential sources of interference.

If you have tried the above troubleshooting steps and the problem persists, please contact Magene official customer support for further assistance.

SPECIFICATIONS

Attribute	Detail
Brand	Magene
Model Name	S314
Color	Black
Item Weight	7.7 Grams
Battery Life	500 Hours
Sensor Type	Speed Sensor, Cadence Sensor
Battery Cell Composition	Lithium Manganese Dioxide
Connectivity Technology	ANT+, Bluetooth
Included Components	1 CR2032 Battery
International Protection Rating	IP66
Manufacturer	Magene
UPC	899385372822
Item Dimensions (LxWxH)	1.41 x 1.21 x 0.32 inches
Material	Polyester

WARRANTY

The Magene S314 Cadence/Speed Sensor comes with a **1-year warranty** from the date of purchase. Please retain your proof of

purchase for any warranty claims. The warranty covers manufacturing defects and malfunctions under normal use conditions.

SUPPORT

For additional support, product information, or to explore other Magene products, please visit the official Magene Store:

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question