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Garmin GMS84300

Garmin Speed Sensor 2 User Manual

Model: 010-12843-00

Introduction

This manual provides essential information for the installation, operation, and maintenance of your Garmin Speed Sensor 2. The sensor is designed to monitor your speed and distance accurately, enhancing your cycling data collection.
The Garmin Speed Sensor 2 is an easy-to-install wireless sensor that attaches to the hub of either wheel. It provides accurate speed and distance data, even without a head unit, and can sync with Garmin Connect and other training apps via ANT+ and Bluetooth Low Energy technology. Its odometer feature helps track distance for bicycle maintenance planning.

What's in the Box

- Speed Sensor

The package contains one Garmin Speed Sensor 2. Please ensure all components are present upon unboxing.

Features

- The speed sensor 2 attaches to the hub of either wheel. You can set up wheel size in our Garmin connect online community or self-calibrate with an edge cycling computer or compatible Garmin device.
- Once set up, you'll get accurate speed and distance at all times — even without a head unit.
- ANT+ connectivity and Bluetooth Low Energy technology let you sync to Garmin Connect and other training apps, compatible devices and fitness equipment for better data when you ride indoors and outdoors.
- The odometer feature tracks your distance to help plan for bicycle maintenance.

Setup

Attaching the Speed Sensor

The Garmin Speed Sensor 2 is designed for easy installation on the hub of your bicycle wheel. It uses an elastic band for secure attachment.

1. Locate the hub of your bicycle wheel (either front or rear).
2. Position the speed sensor on the hub, ensuring the Garmin logo faces outwards.

3. Secure the sensor using the integrated elastic band, wrapping it around the hub until it is firmly in place. The sensor should be snug and not move freely.



Image: Garmin Speed Sensor 2 attached to a bicycle wheel hub, showing its compact design and secure fit.



Image: Front view of the Garmin Speed Sensor 2, highlighting the Garmin branding and its sleek, black design.



Image: Side view of the Garmin Speed Sensor 2, showing its profile and the attachment mechanism.



Image: Rear view of the Garmin Speed Sensor 2, displaying the battery compartment and regulatory markings.



Image: Top view of the Garmin Speed Sensor 2, showing its elongated shape designed to fit around a hub.



Image: Bottom view of the Garmin Speed Sensor 2, illustrating the smooth surface that rests against the hub.



Image: Angled view of the Garmin Speed Sensor 2, providing a comprehensive look at its form factor.

Pairing with a Device

The sensor automatically activates when the wheel begins to spin. It uses ANT+ and Bluetooth Low Energy technology to

connect with compatible Garmin devices (e.g., Edge cycling computers, GPS watches) and other training apps.

1. Ensure your Garmin device or training app is in pairing mode.
2. Spin the bicycle wheel a few times to wake up the speed sensor.
3. Your device should automatically detect the sensor. Follow the on-screen prompts to complete the pairing process.
4. For optimal accuracy, you can set up your wheel size in the Garmin Connect online community or allow a compatible Garmin device to self-calibrate.

Your browser does not support the video tag.

Video: A Closer Look at the Garmin Speed Sensor 2. This video provides a detailed visual overview of the product's features and design, demonstrating its compact size and how it integrates with a bicycle wheel.

Operating

Once paired, the Garmin Speed Sensor 2 operates automatically. It continuously transmits speed and distance data to your connected device as long as the wheel is in motion.

- **Real-time Data:** View your current speed and distance on your paired Garmin device or compatible app.
- **Odometer Function:** The sensor includes an odometer feature that tracks your total distance over time. This is useful for monitoring bicycle usage and planning maintenance intervals.
- **Indoor Training:** The sensor provides accurate speed and distance data even when riding indoors on a trainer, where GPS signals may be unavailable or inaccurate.

Maintenance

Cleaning the Sensor

Regularly clean the sensor with a damp cloth to remove dirt and debris. Avoid using harsh chemicals or abrasive materials that could damage the sensor's casing.

Battery Replacement

The sensor is powered by a replaceable coin cell battery (CR2032). When the battery level is low, your connected Garmin device may display a low battery warning.

1. Carefully remove the sensor from the bicycle hub.
2. Locate the battery cover on the back of the sensor.
3. Use a small coin or flat-head screwdriver to twist the battery cover counter-clockwise until it unlocks.
4. Remove the old battery.
5. Insert a new CR2032 battery with the positive (+) side facing up.
6. Replace the battery cover and twist it clockwise until it is securely locked.

Note: Ensure the O-ring seal is properly seated when replacing the cover to maintain water resistance.

Troubleshooting

- **Sensor not pairing or connecting:**
  - Ensure the sensor is securely attached to the hub and the wheel is spinning to activate it.
  - Check the battery level and replace it if necessary.
  - Move the sensor closer to your Garmin device during pairing.

- Disable and re-enable Bluetooth/ANT+ on your device.
- Remove the sensor from your device's paired list and attempt to pair it again.

- **Inaccurate speed/distance readings:**
  - Verify that the sensor is firmly attached and not slipping on the hub.
  - Ensure your wheel size is correctly configured in Garmin Connect or your paired device.
  - If using GPS, ensure a clear line of sight to satellites for optimal GPS accuracy, though the speed sensor provides data independently of GPS.
- **Sensor light not flashing:**
  - The sensor's LED light typically flashes when it wakes up or pairs. If it's not flashing, check the battery.
  - Spin the wheel vigorously to ensure the sensor is activated.

Specifications

Attribute	Value
Brand	Garmin
Model Number	GMS84300
Color	Multi
Product Dimensions	3.25"L x 1.25"W x 0.25"H
Item Weight	1 Grams (0.035 ounces)
Sensor Type	Speed Sensor
Battery Cell Composition	Lithium Manganese Dioxide
Connectivity Technology	Wireless, Bluetooth, ANT+
Included Components	Speed Sensor
International Protection Rating	IP54
Mounting Type	Flange Mount
UPC	753759233334, 753759222536
Batteries	2 Lithium Metal batteries required (included)
Date First Available	April 30, 2019

Warranty and Support

For warranty information and technical support, please refer to the official Garmin website or contact Garmin customer service directly. Keep your proof of purchase for warranty claims.
You can also find additional resources and FAQs on theGarmin Store on Amazon.
A PDF version of the user manual is available for download:User Manual (PDF).

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