

## GARMIN 010-12843-10

# GARMIN Speed Sensor Dual 010-12843-10 Instruction Manual

Model: 010-12843-10 | Brand: GARMIN

## INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of your GARMIN Speed Sensor Dual (Model 010-12843-10). This sensor attaches to the rear wheel hub of your bicycle to accurately measure speed and distance. It supports both ANT+ and Bluetooth signals for versatile connectivity with compatible devices.

## PACKAGE CONTENTS

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Verify that your package contains the following items:

- GARMIN Speed Sensor Dual (Model 010-12843-10)
- Mounting strap(s)
- CR2032 Battery (pre-installed or separate)
- Quick Start Guide (this document serves as a detailed guide)

## SETUP

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### 1. Installing the Speed Sensor

The speed sensor attaches to the hub of either wheel. For optimal performance and consistent speed readings, it is recommended to install the sensor on the rear wheel hub.

1. Locate the hub of your bicycle wheel.
2. Place the flat side of the sensor on top of the wheel hub.
3. Thread the mounting strap around the hub and over the sensor.
4. Securely fasten the strap to the hook on the sensor. Ensure the sensor is firmly attached and does not move during rotation.



Image: The GARMIN Speed Sensor Dual (Model 010-12843-10) securely mounted on a bicycle wheel hub using the provided strap. The sensor is positioned centrally on the hub.

## 2. Pairing with a Device

The Speed Sensor Dual supports both ANT+ and Bluetooth Low Energy (BLE) connectivity. This allows it to pair with a wide range of cycling computers, smartwatches, and smartphone applications.

- **For ANT+ Devices:**

- a. Bring the sensor within 3 meters (10 feet) of your ANT+ compatible device.
- b. Rotate the wheel a few times to activate the sensor. The LED on the sensor will flash green for 5 seconds to indicate activity.
- c. On your ANT+ device, go to the sensor settings and select "Add Sensor" or "Search for Sensors".
- d. Select the GARMIN Speed Sensor from the list of available sensors.
- e. Follow the on-screen prompts to complete the pairing process.

- **For Bluetooth Devices:**

- a. Bring the sensor within 3 meters (10 feet) of your Bluetooth compatible device (e.g., smartphone, cycling computer).
- b. Rotate the wheel a few times to activate the sensor. The LED on the sensor will flash green for 5 seconds to indicate activity.
- c. On your Bluetooth device, open the Bluetooth settings or the compatible cycling application.
- d. Search for available devices.
- e. Select the GARMIN Speed Sensor from the list.
- f. Follow any on-screen prompts to confirm pairing.

*Note:* Once paired, the sensor will automatically connect to your device when active and within range.

## OPERATING THE SENSOR

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The GARMIN Speed Sensor Dual operates automatically once installed and paired. It does not have any buttons or manual controls for operation.

- **Automatic Activation:** The sensor activates automatically when motion is detected (i.e., when the wheel starts rotating).
- **Data Transmission:** It transmits speed and distance data wirelessly to your paired device via ANT+ or Bluetooth.
- **Calibration:** The sensor automatically calibrates itself using your GPS-enabled device. For best accuracy, ensure your paired device has GPS enabled and is receiving a strong signal during your first few rides. Manual wheel circumference input may be an option on some head units for enhanced precision.

## MAINTENANCE

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### Battery Replacement

The sensor uses a replaceable CR2032 coin cell battery. The typical battery life is up to 12 months with normal use.

1. Locate the circular battery cover on the back of the sensor.
2. Use a coin to twist the battery cover counter-clockwise until it unlocks.
3. Carefully remove the cover and the old CR2032 battery.
4. Insert a new CR2032 battery with the positive (+) side facing up.
5. Replace the battery cover, aligning the marks, and twist clockwise with a coin until it is securely locked.

*Note:* After replacing the battery, the sensor may need to be re-paired with your device, or it may automatically reconnect upon activation.

### Cleaning the Sensor

Clean the sensor regularly with a damp cloth. Avoid using harsh chemicals or abrasive cleaners, as these can damage the sensor casing or internal components.

## TROUBLESHOOTING

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- **Sensor not detected by device:**
  - Ensure the sensor is properly installed and the wheel is rotating to activate it.
  - Check the battery. Replace if necessary.
  - Bring the sensor closer to your device (within 3 meters).
  - Disable and re-enable Bluetooth/ANT+ on your device.
  - Remove the sensor from your device's paired list and attempt to re-pair it.
  - Check for firmware updates for your cycling computer or smartphone application.
- **Inaccurate speed/distance readings:**
  - Ensure the sensor is securely mounted and not slipping on the hub.
  - Verify that your paired device's wheel circumference setting is correct (if applicable).
  - Ensure your GPS-enabled device has a clear view of the sky for accurate initial calibration.
  - Avoid strong electromagnetic interference sources.
- **LED not flashing:**

- Rotate the wheel to activate the sensor.
- Replace the battery.

## SPECIFICATIONS

| Feature           | Specification                    |
|-------------------|----------------------------------|
| Model Number      | 010-12843-10                     |
| Brand             | GARMIN                           |
| Connectivity      | ANT+, Bluetooth Low Energy (BLE) |
| Sensor Type       | Speed Sensor                     |
| Battery Type      | CR2032 (Lithium Coin Cell)       |
| Battery Life      | Up to 12 months (typical use)    |
| Color             | Black                            |
| Mounting Type     | Easy mounting                    |
| Country of Origin | Taiwan                           |
| UPC               | 753759233921                     |

## WARRANTY INFORMATION

GARMIN products are warranted to be free from defects in materials or workmanship for one year from the date of purchase. Within this period, GARMIN will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not apply to: (i) cosmetic damage, such as scratches, nicks and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iii) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (iv) damage caused by service performed by anyone who is not an authorized service provider of GARMIN; or (v) damage to a product that has been modified or altered without the written permission of GARMIN. For full warranty terms and conditions, please refer to the official GARMIN website or contact customer support.

## CUSTOMER SUPPORT

For technical support, product registration, or additional information, please visit the official GARMIN support website: [support.garmin.com](https://support.garmin.com)  
You can also find FAQs, video tutorials, and contact information for your region on the support portal.

### 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**