

**Futaba 01102290-1**

# Futaba SBS-02G GPG Telemetry Sensor v2.0 User Manual

Model: 01102290-1

Brand: Futaba

## INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Futaba SBS-02G GPG Telemetry Sensor v2.0. This sensor is designed to provide real-time GPS and atmospheric pressure-based altitude data, along with a variometer function, for compatible Futaba telemetry systems. Adhering to the instructions in this manual will ensure optimal performance and longevity of your sensor.

## PRODUCT FEATURES

- Integrated GPS and Altitude Sensor (atmospheric pressure-based).
- Enhanced measurement accuracy compared to Version 1.0.
- Vario Meter functionality for ascent/descent rate indication.
- Capable of measuring speed up to 311 mph.
- Altitude measurement range: 766 to 6015 yards.
- Vario Meter measurement range: up to 336 mph (vertical speed).

## PACKAGE CONTENTS

Please verify that all components are present before proceeding with installation:

- 1 x Futaba SBS-02G GPG Telemetry Sensor v2.0
- 1 x FUEL-G02 Battery

## SETUP AND INSTALLATION

Proper installation is crucial for accurate sensor performance.

### Physical Installation

The sensor should be mounted securely in a location that provides a clear view of the sky for optimal GPS signal reception and is free from excessive vibration. Ensure the sensor is oriented correctly as per your specific application's requirements.



Image: The Futaba SBS-02G GPG Telemetry Sensor v2.0, a compact black rectangular unit with "SBS-02G Futaba" printed on its side, connected to a red and black wire ending in a black connector.

## Electrical Connection

1. Connect the sensor's cable to a compatible S.BUS2 port on your Futaba receiver. Refer to your receiver's manual for the exact S.BUS2 port location.
2. Ensure the connector is inserted firmly and in the correct orientation to avoid damage.

## Initial Configuration

After physical and electrical connection, power on your receiver and transmitter. Access the telemetry menu on your Futaba transmitter to register the SBS-02G sensor. Follow the on-screen prompts to assign a telemetry slot and configure any desired settings, such as alarm thresholds for altitude or speed.

## OPERATING INSTRUCTIONS

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Once configured, the SBS-02G sensor will automatically begin transmitting data to your compatible Futaba telemetry system.

### Data Display

Real-time data such as GPS coordinates, speed, altitude, and variometer readings can be viewed on your Futaba transmitter's display. Consult your transmitter's manual for details on how to navigate and customize the telemetry data display.

### Vario Meter Function

The variometer provides an audible and/or visual indication of vertical speed (climb or descent). This feature is particularly useful for glider pilots to identify thermals. The sensitivity and audio alerts for the variometer can typically be adjusted via the transmitter's telemetry settings.

## MAINTENANCE

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The Futaba SBS-02G GPG Telemetry Sensor v2.0 is designed for durability and requires minimal maintenance.

- Keep the sensor clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- Regularly inspect the wiring and connectors for any signs of wear, fraying, or corrosion.
- Ensure the sensor remains securely mounted to prevent damage from vibration or impact.
- Avoid exposing the sensor to extreme temperatures or direct sunlight for prolonged periods.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No telemetry data displayed.	Sensor not connected or not registered.	Check sensor connection to S.BUS2 port. Ensure sensor is registered in transmitter's telemetry menu.
Inaccurate GPS readings.	Poor GPS signal reception.	Relocate sensor to an area with a clearer view of the sky. Avoid mounting near large metal objects or other electronics that may cause interference.
Altitude readings are inconsistent.	Rapid changes in atmospheric pressure (weather), sensor not calibrated.	Ensure sensor is not exposed to direct airflow or pressure changes from propellers. Calibrate altitude before flight if your transmitter supports it.

## TECHNICAL SPECIFICATIONS

Feature	Detail
Model Name	SBS-02G
Part Number	01102290-1
Brand	Futaba
Sensor Type	GPS / Barometric Altitude / Vario Meter
Max Speed Measurement	311 mph
Altitude Measurement Range	766 - 6015 yards
Vario Meter Range	Up to 336 mph (vertical speed)
Length	175mm
Weight	11g
Vehicle Service Type	Car, Truck, Motorcycle
Included Components	1 x FUEL-G02 Battery

## WARRANTY AND SUPPORT

For warranty information and technical support, please contact Futaba customer service or visit the official Futaba website. Keep your purchase receipt as proof of purchase.

**Website:** [www.futabarc.com](http://www.futabarc.com)

Email: [support@futabarc.com](mailto:support@futabarc.com)

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