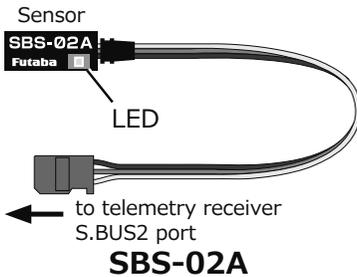


Altitude sensor SBS-02A

Instruction Manual

Thank you for purchasing Futaba's SBS-02A Altitude Sensor. This sensor, used in conjunction with a telemetry enabled transmitter/receiver, indicates the altitude of the item to which it is attached. To maximize your enjoyment, and to ensure proper sensing, please read through this manual thoroughly. We also encourage you to retain the manual for future reference should the need arise.

● The SBS-02A is designed for use with Futaba telemetry systems.



*The using of SBS-01A and SBS-02A is common. It's sometimes indicated on the manual of the transmitter with SBS-01A, SBS-02A can be used by the same way.

Weather

This sensor calculates the altitude from atmospheric pressure. Atmospheric pressure will get lower as you go up in altitude. Using this the sensor will estimate the altitude. Please understand that an exact advanced display cannot be performed if atmospheric pressure changes in a weather situation.

(Example) A high atmospheric pressure approaches.

→It indicates that the display altitude fell.

Slot Number Setup

SBS-02A uses three continuous slots. Please note that the proper default start slot for this accessory is number 3. When setup-changing or adding, it is the following numbers that are made to a start slot.

1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 16, 17, 18, 19, 20, 21, 24, 25, 26, 27, 28, 29

Information on how to change the slot assignment is included in the transmitter's manual.

Use : Altitude sensor (from atmospheric pressure) with Vario meter

Range :
[Altitude] about -700 ~ 5,500 m (sensor spec)
[Vario meter] -150m/s ~ +150m/s

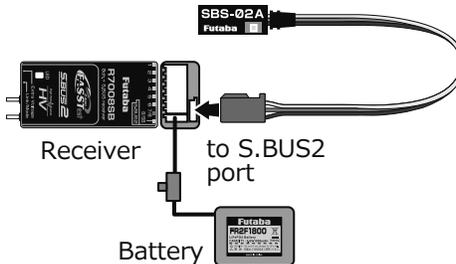
Length : 175mm

Weight : 2.6g

Voltage : DC 3.7 ~ 7.4V

Wiring

The SBS-02A may only be used with telemetry enabled receivers that offer S.BUS 2 port(s). Please refer to the manual(s) that accompanied your transmitter and/or receiver for proper connection methodology.



LED Indication

Green	Normal operation
Red	No signal reception
Green/Red	When setting up the slot
Green/Red Alternate blink	Unrecoverable error

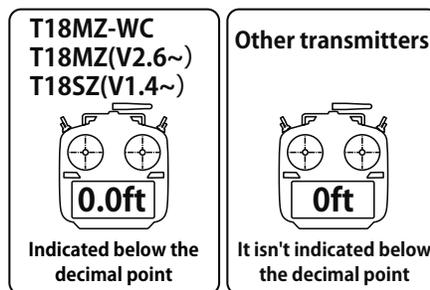
Relative Altitude

Data when a power supply is turned on shall be 0 m, and it displays the altitude which changed from there.

Even if the altitude of an airfield is high, that shall be 0 m and the altitude difference from an airfield is displayed.

Indicated Altitude

SBS-02A was more in detail than SBS-01A.



⚠WARNING

Failure to follow these safety precautions may result in severe injury to yourself and others.

❗ To utilize the SBS-02A altitude sensor, connect it to the S.BUS2 port of the Futaba telemetry enabled receivers.

■ The SBS-02A will not function properly if connected to an S.BUS port or other channel ports.

❗ Ensure that the unit is connected properly to the receiver. Failure to do so could result in damage to the sensor.

❗ Ensure that the unit is mounted in an area that will eliminate exposure to fuel, water and vibration.

■ As with any electronic components, proper precautions are urged to prolong the life and increase the performance of the SBS-02A.

❗ To ensure that the SBS-02A is functioning as desired, please test accordingly.

■ Do not fly until inspection is complete.

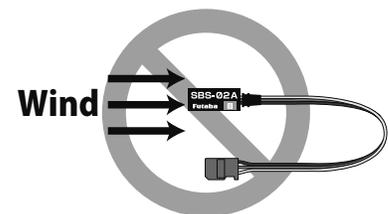
❗ Allow a slight amount of slack in the SBS-02A cables and fasten them at a suitable location to prevent any damage from vibration during flight.

⊘ Do not use the SBS-02A with anything other than an R/C model.

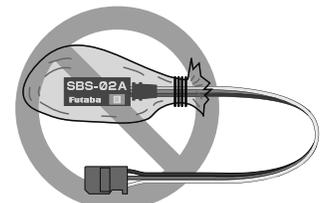
*It takes about 15 seconds to indicate the altitude after SBS-02A is turned on.

Mounting Precautions

Do not install in a location where the wind/ air flow can hit the sensor. Also, do not put in a sealed location as atmospheric pressure will not change in a sealed location.



Do not install in a location where the wind/ air flow can hit the sensor.



Do not put in a sealed location.

