

PowerBox Systems®

World Leaders in RC
Power Supply Systems

Instruction Manual



TELECONVERTER

1. PRODUCT DESCRIPTION

The **PowerBox Teleconverter** provides a means of connecting any PowerBox with a telemetry output to a **Futaba S-BUS2** telemetry system. All you have to do is register the **Teleconverter** at the transmitter, like a standard sensor.

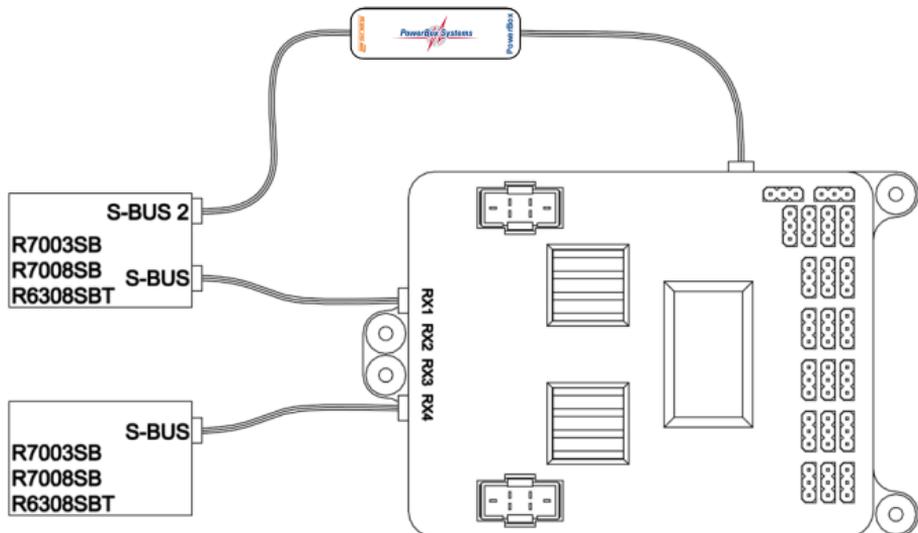
2. REGISTERING THE TELECONVERTER AT THE TRANSMITTER

The **Teleconverter** does not need to be registered to Futaba transmitters. Simply select the „**PowerBox**“ sensor for Slot 8 in the **Sensor** menu. By default the **Teleconverter** occupies slots 8 – 23.

You only need to register the **Teleconverter** if you wish to move it to different slots. This is accomplished by connecting it to the transmitter with a battery prior to registering it.

3. CONNECTING THE TELECONVERTER

The **Teleconverter** is connected to the **PowerBox** as shown below:



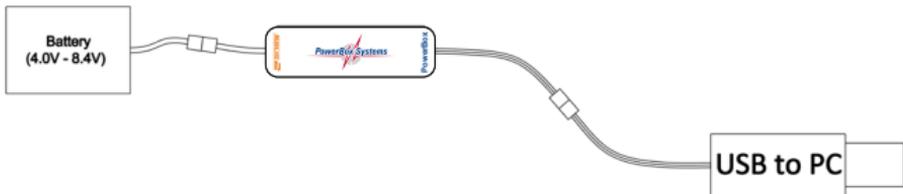
Note: when the receiver is connected, please ensure that the Telemetry function is activated at the transmitter!

4. SETTING THE MODE, SOFTWARE UPDATES

This requires the use of **PowerBox Terminal**, which can be downloaded from our website:

www.powerbox-systems.com/downloads/powerbox-terminal.html

Install the program on your PC and connect the **USB Interface Adapter** (Order No. 9020) as shown below:



Start the program, select the **Teleconverter** tab at the top of the window, then click on **Continue**. Wait for **Terminal** to connect to the **Teleconverter**; this takes ten seconds. You can now select either **Futaba current sensor 1678** or **PowerBox sensor**.

The **Futaba current sensor** transmits one value for residual capacity and one for voltage; the sensor always selects the lower of the values present at the PowerBox.

Example: the two battery voltages present at the PowerBox are 7.36 V and 7.48 V; the sensor transmits 7.36 V.

It is possible to set up alarm thresholds at the transmitter which warn the user in good time that the battery is almost flat.

If configured as **PowerBox** sensor, the following data can be transmitted:

- Battery voltage, battery 1 and battery 2
- Residual capacity, battery 1 and battery 2
- Number of Fades, RX1 and RX2
- Number of Lost Frames
- Number of Fail-Safe events

If the **Teleconverter** is plugged into a **Royal SRS** with **GPS**, the following GPS data can also be received:

- 3D speed
- Altitude
- 3D distance
- Distance covered
- GPS positional data

For software updates you also need to start by selecting the **Teleconverter** tab; after this click on **Continue**, and then on **Software update**.

5. SET CONTENTS

- **Teleconverter**
- Two 3-pin male connectors
- Operating instructions

6. SERVICE NOTE

We make every effort to provide a good service to our customers, and have now established a Support Forum which covers all queries relating to our products. This helps us considerably, as we no longer have to answer frequently asked questions again and again. At the same time it gives you the opportunity to obtain assistance all round the clock, and even at weekends. The answers come from the **PowerBox team**, which guarantees that the answers are correct.

Please use the Support Forum **before** you contact us by telephone.

You will find the forum at the following address:

www.forum.powerbox-systems.com

7. GUARANTEE CONDITIONS

At **PowerBox-Systems** we insist on the highest possible quality standards in the development and manufacture of our products. They are guaranteed **“Made in Germany”!**

That is why we are able to grant a **24 month guarantee** on our **PowerBox Tele-converter** from the initial date of purchase. The guarantee covers proven material faults, which will be corrected by us at no charge to you. As a precautionary measure, we are obliged to point out that we reserve the right to replace the unit if we deem the repair to be economically unviable.

Repairs which our Service department carries out for you do not extend the original guarantee period.

The guarantee does not cover damage caused by incorrect usage, e.g. reverse polarity, excessive vibration, excessive voltage, damp, fuel, and short-circuits. The same applies to defects due to severe wear.

We accept no liability for transit damage or loss of your shipment. If you wish to make a claim under guarantee, please send the device to the following address, together with proof of purchase and a description of the defect:

SERVICE ADDRESS

PowerBox-Systems GmbH

Ludwig-Auer-Straße 5
D-86609 Donauwoerth
Germany

8. LIABILITY EXCLUSION

We are not in a position to ensure that you observe our instructions regarding installation of the **PowerBox Teleconverter**, fulfil the recommended conditions when using the unit, or maintain the entire radio control system competently.

For this reason we deny liability for loss, damage or costs which arise due to the use or operation of the **PowerBox Teleconverter**, or which are connected with such use in any way. Regardless of the legal arguments employed, our obligation to pay damages is limited to the invoice total of our products which were involved in the event, insofar as this is deemed legally permissible.

We wish you every success using your new **PowerBox Teleconverter!**



Donauwoerth, December 2020

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