

YGE TexY

Futaba-SBUS2 Telemetry (FW: V1.03)

Safety Instructions:

If you use Futaba telemetry, if possible, do **NOT** use the internal storage, but the SD- card. In rare cases some sensors and / or Slot-configurations from different firm wares may cause problems, which will make the transmitter inoperable. If the model is saved on the SD- card, the card can be removed - if necessary- so that the transmitter will again be operable.

Currently TexY makes 11 telemetry values available on 7 sensors in one tool:

1. Futaba/Robbe current sensor CURR-F1678 (Default-Slot: 16)

- main battery voltage
- main battery current (up to 163,8A (*))
- used mAh

2. Futaba RPM sensor SBS-01R* (Default-Slot: 19)

- RPM of the motor (Attention should be paid to the gear ratio configuration of the ESC)
Beside the T18MZ supplies (currently) a different RPM result by a factor of 2.

3. Futaba Temperature sensor Temp125 (Default-Slot: 20)

- MosFET-temperature speedcontroller

4. Futaba Temperature sensor Temp125 (Default-Slot: 21)

- Transmitter throttle opening in % (There is no suitable sensor from Futaba)

5. Futaba Temperature sensor Temp125 (Default-Slot: 22)

- Motor-PWM in % .(There is no suitable sensor from Futaba)

6. Futaba Temperature sensor Temp125 (Default-Slot: 23)

- BEC-temperature, if available, otherwise -40°C.

7. Futaba/robbe current sensor CURR-F1678 (Default-Slot: 24)

- BEC- voltage (If available, otherwise 0.0V)
- BEC-current (only if available, otherwise 0.0A, not available for LVTB-speedcontrollers)
- Main battery current for values > 163,8A (*)(Caution: displayed in mAh)

So TexY is highly compatible with most of the transmitters:

<http://www.ripmax.de/software-downloads/web-futaba-sensorenliste.pdf>

Registering of the TexY internal sensor to the Futaba- transmitter:

First of all TexY has to be adjusted per Autodetect e.g. (on the transmitter) to Futaba (see quick guide). Please check again that your model is saved on the SD- card. For registration unplug the plug from SBUS2 and plug it into the designated programming slot in your Futaba transmitter/telemetry box. Use a Y-cable to supply the TexY, just like you did with the other sensors. You recognize the programming mode once the red LED is blinking briefly and then goes out for a longer period. First of all check if you are in the registration mode! According to your manual you will now go to the sensor menu and choose „load“ or alternately repeat several times „register“ until you see „already exists“. The integrated sensors in the TexY will now be revealed and - if necessary - new slots will be assigned. After registration, check if the above named sensors are listed. If not, delete the list and try again. Disconnect TexY from the transmitter and plug TexY again on to the SBUS2 port of the receiver. As soon as the speedcontroller is armed (pay attention to the reversed throttle channel!), the blue and red LEDs should be blinking slowly and constantly and you can see the telemetry data on the transmitter.

Information regarding the sensors and the special case of several sensors in one device:

For individual sensors it is possible during the registration process to plug in the sensors successively to the transmitter and to register and / or to allocate an alternative slot. But if several sensors are combined in one device (like TexY e.g.), the problem arises that only one sensor is allowed to exchange data with the transmitter at the same time. Due to this, the sensors in TexY will be „activated“ successively during the registration process. If you want to change the slot-configuration manually, it is possible to do so, but we do not recommend it. It is important to note that the transmission to the next sensor will always be implemented while writing a slot-configuration. If you want to go to a certain sensor, you have to write over the same slot-configuration of the previous sensor without changing it so that the next sensor in line will be activated. You can see which sensor is at the time active by going LOAD in the Single menu (SET SLOT). You can also enter the slot-configuration on your transmitter manually. For this purpose TexY does not have to be plugged into the transmitter.

The current Default- Slots are:(V1.03000):

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| 1. Futaba/Robbe power sensor CURR-F1678 | Slot16..18 | →UBat,IBat Cap. |
| 2. Futaba RPM sensor SBS-01R* | Slot19 | →RPM |
| 3. Futaba Temperature sensor Temp125 | Slot20 | →TempFets ESC |
| 4. Futaba Temperature sensor Temp125 | Slot21 | →Gas Vowahl (%) |
| 5. Futaba Temperature sensor Temp125 | Slot22 | →Regleröffnung (%) |
| 6. Futaba Temperature sensor Temp125 | slot23 | →TempBec |
| 7. Futaba/Robbe power sensor CURR-F1678 | Slot24..26 | →UBec, IBec, IBat(>163A) |