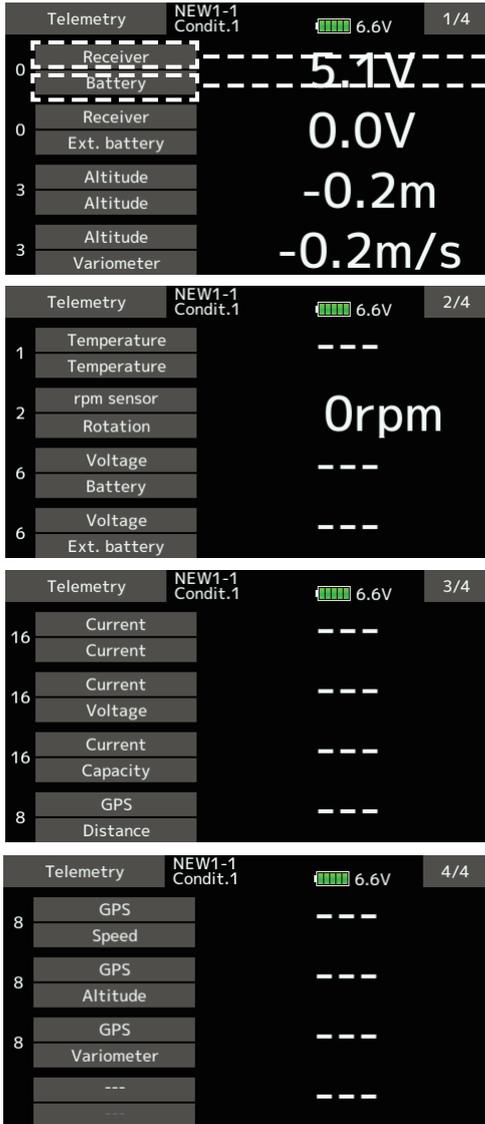This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T18SZ transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed.
1) Select the System Menu.
2) Touch the [Information] button.
3) Confirm that the information in the display indicates the version numbers as noted above.

1. Telemetry display (The extension of the number of telemetry data which is shown)

The number of telemetry data which is displayed to Telemetry display screen is extended. It is 16 items (4 pages) maximum.

Sensor type selection screen

You can choose which type of sensor to displays. Tap the sensor type.

If you do not want to display telemetry data on the telemetry monitor screen, select "---".

Sensor selection screen

For some sensor types, you can choose the display item. Tap to select.

2. Timer Alarm

Added a setting to keep the alarm after the alarm set time.

Constant: The alarm does not stop

One time: Stop the alarm at once

3. Model select

Model data of FX-32 can be used.

4. Data Converter

FX-30 and T12FG have been added to the data converter compatible models.

The transmitter name is displayed on icon.

5. Butterfly Elevator setting (Glider)

Added fine tuning function to butterfly elevator setting.

*When Flying wing type, it was made not to display Elevator setting.

6. Butterfly mixing mode (Glider)

The operation of Butterfly mixing was changed.

Mode A, mode B selection added.

● Mode A

(Normal)

● The butterfly operation direction is reversed at the neutral position (50%) of the throttle stick.

At offset 20

At offset 70

The direction of butterfly motion is reversed.

● Mode B

(Throttle stick full stroke MODE)

● It does not reverse at the neutral position, so you can set the butterfly operation start point with the full stroke of the throttle stick.

At offset 20

At offset 70

The direction of butterfly motion is not reversed.

7. Butterfly Differential rate (Glider)

The operation of Butterfly Differential rate was changed.

◆ When Butterfly Differential rate is "+", Up rate is decrease and DOWN rate is increase.

◆ When Butterfly Differential rate is "-", the calculation method of UP/DOWN and a direction become reverse.

8. Error correction for Failsafe screen

A fault that a fail-safe position indicator is not shown on the Failsafe screen in FASST-7ch mode has been fixed.

This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T18SZ transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed.
1) Select the System Menu.
2) Touch the [Information] button.
3) Confirm that the information in the display indicates the version numbers as noted above.

1. Information (System menu)

Two pages of manual QR code and manufacturer information are added to the information.

Information	**Page 2：Manual QR code**	**Page 3：Manufacturer Information**

Tap to page 2　　**Tap to page 3**　　**Tap to page 1**

Information	Model1 Normal	6.7V	1/3
User name	Futaba Corp		
Language	English		
Unit system	Metric		
Version	0.2.443J		
Memory card size	122MB		
Card free size	121MB		

Instruction　Model1 Condit.1　6.5V　2/3
You can download the instruction from the QR code. Please note that the file size is large.

English　　Japanese

You can download the instruction manual (English · Japanese) by scanning with QR code read compatible tablet or smart phone.

Information　Model1 Condit.1　6.5V　3/3
Manufacturer:
FUTABA CORPORATION

Makuhari Techno-Garden Bldg.
B-6F, 1-3 Nakase, Mihama-ku,
Chiba, 261-8555, Japan
Phone: +81-43-296-8259

Open source license

Tap to display Open source license

2. Add INT (Integration) Timer (Linkage menu)

INT (integration) Timer is the function which changes progress of a timer according to the location of the throttle stick. When the throttle stick is raised for faster speed, the speed of the timer usually increases. With the throttle stick at mid-range speed, the timer speed decreases (to 50%). When the throttle is positioned at low end, the timer's progress stops. It's possible to set it in the time which fits power consumption of your fuselage.

*The consumption of the battery/fuel is different depending on the conditions, so use an INT Timer as reference.

*The INT (integration) time is different from the actual elapsed time.

High — When a throttle stick is the high side, the speed of the timer usually increases.

Middle — When a throttle stick is middle-speed, the timer speed decreases (by 50%).

Low — When a throttle stick is low, timer progress stops.

● Select [Timer] at the linkage menu and call the setup screen shown below.

INT Time

Percentage to set time

Timer	New Normal	6.9V	1/2
Timer1 18%	01:50.0	Reset	TH%
Alarm	10 : 00	Elapsed	Speech
Mode	Up	Reset switch	--
Vibrator	Inhibit	Start switch	--
Memory	OFF	Stop switch	--

◆ Start INT timer

Nomal Timer

Tap ---

TH%：Integration Timer

| ---	**Nomal Timer**
TH%	**INT (Integration) Timer**

3. Add T14SG/FX-22 →T18SZ MODEL DATA CONVERSION

The model data (only latest version) of T14SG/FX-22 can be copied to T18SZ.

* SD card is required.
* The model data of T18SZ cannot be copied to T14SG/FX-22.
* Functions in T14SG/FX-22, functions not in T18SZ are not converted.

[Model data conversion method]

1. Attach an SD card that contains model data of T14SG or FX-22 to the SD slot of a T18SZ.
2. Turn on the power switch, and the Data Converter should run.
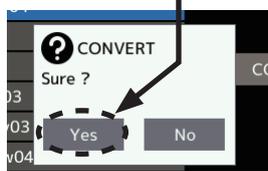
3. The converter shows a list of model data in the card. Select a model data that you want to convert and push "CONVERT" → "Yes" key, and the converter should begin converting data.
4. If the convert succeeds, the converter will show the following message. The converted data are copied to the internal memory of the T18SZ. Hence, if the T18SZ does not have available space in its internal memory, converts must fail.
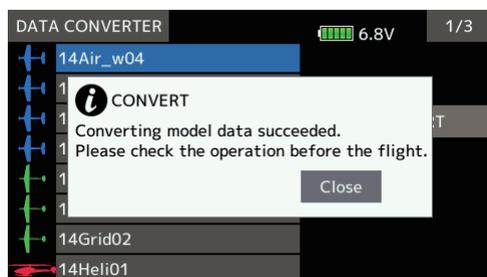
5. The converter can accept model data made by T14SG or FX-22 with the latest software only. If you try to convert model data made by old version software, the converter must fail to convert and show the following error message. If this message is shown, do the following procedure to update the model data in order to avoid this limitation.

(a) First, update a T14SG or FX-22 to the latest software.
(b) Load the model data which failed to convert into the T14SG or FX-22 with the latest software, and the model data should be updated to the latest format.
(c) Save the updated model data to a SD card.
(d) Retry to convert the updated model data on a T18SZ.

* When SD card cannot be recognized, it may be able to be used if it reformats by SD formatter offered from SD Association. SD formatter is downloadable from SD Association https://www.sdcard.org/ (As of June, 2017)

⚠ CAUTION

❗ After finishing data copy, be sure to perform a complete check of operation with the model to be used.

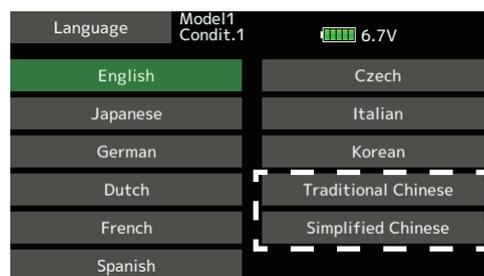❗ Check well all the directions of operation and all the operation switches.

> **Important: Always check the operation of the model prior to flight.**

4. Trim screen display name change (linkage menu)

It changed with **T1 - T6 setting → Trim setting**. Also the display name of **T1 - T6** of data reset was changed to **Trim**.

*There is no change in function or setting method.

5. Add Language Traditional Chinese, Simplified Chinese (System menu-Information)

This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T18SZ transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed.
1) Select the System Menu.
2) Touch the [Information] button.
3) Confirm that the information in the display indicates the version numbers as noted above.

1. The following faults about telemetry function have been fixed.

1. GPS data that a PowerBox measured are not displayed.

2. Several data that a JetCat V10 measured are not displayed.

3. The transmitter freezes at the screen to choose data type of JetCat V10 to show on the telemetry monitor screen from the Home screen when you tap the title button in the screen to choose data type.

T18SZ SOFTWARE UPDATE CHANGES

V2.0

This software updates or alters the functions and features noted below. The instructions and information that follow are meant as a supplement to the original instruction manual that accompanied the T18SZ transmitter. Please refer to the original instruction manual where applicable, but replace the steps indicated below with these instructions. Please check to ensure that the update has been installed.
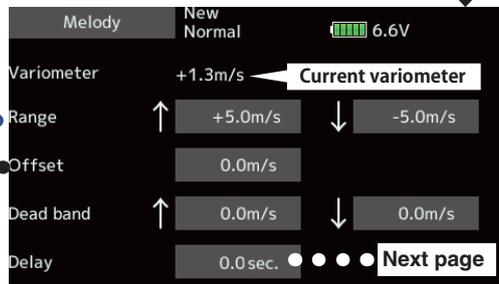1) Select the System Menu.
2) Touch the [Information] button.
3) Confirm that the information in the display indicates the version numbers as noted above.

1.Vario Melody Setting

Vario Melody Setting is added to the variometer of the Altitude Sensor and GPS sensor.
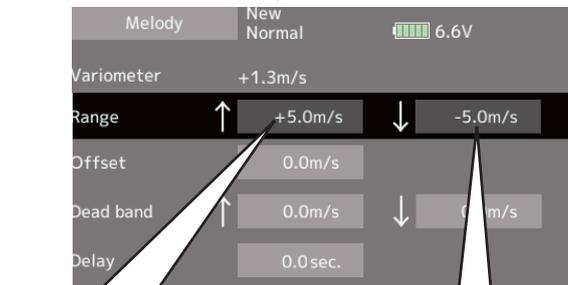
Altitude	New Normal		6.6V
Variometer			
Alarm	Vibrator	Limit	
↑ Inhibit	Inhibit	+1.0m/s	
↓ Inhibit	Inhibit	-1.0m/s	
Speech OFF	Reference Preset	Melody Inhibit ON Set	

Tap the [Set] button

Melody	New Normal		6.6V
Variometer	+1.3m/s	Current variometer	
Range	↑ +5.0m/s	↓ -5.0m/s	
Offset	0.0m/s		
Dead band	↑ 0.0m/s	↓ 0.0m/s	
Delay	0.0 sec.	Next page	

*These settings can be set each sensors.

Range

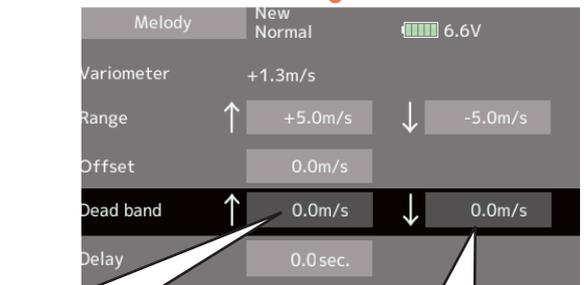| Melody	New Normal		6.6V
Variometer	+1.3m/s		
Range	↑ +5.0m/s	↓ -5.0m/s	
Offset	0.0m/s		
Dead band	↑ 0.0m/	↓ 0.0m/s	
Delay	0.0 sec.		

When the variometer is greater than this value, Vario melody is not variable.
Setting range：
Offset value ～ +50m/s
Initial value： 5.0m/s

When the variometer is less than this value, Vario melody is not variable.
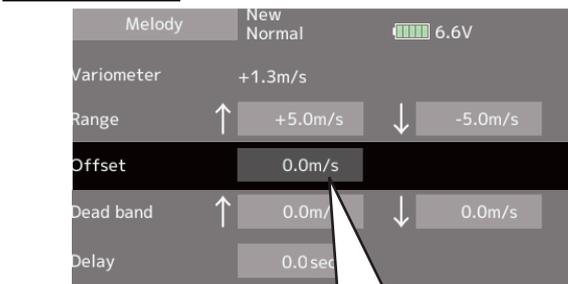**Setting range：**
-50m/s ～ Offset value
Initial value： -5.0m/s

Deadband

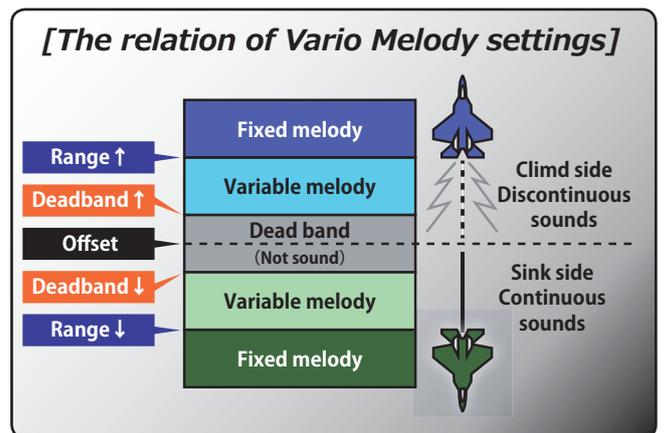| Melody	New Normal		6.6V
Variometer	+1.3m/s		
Range	↑ +5.0m/s	↓ -5.0m/s	
Offset	0.0m/s		
Dead band	↑ 0.0m/s	↓ 0.0m/s	
Delay	0.0 sec.		

When the variometer is less than this value, Vario melody is not output.
Setting range： 0m/s ～ +50m/s
Initial value： 0.0m/s

When the variometer is greater than this value, Vario melody is not output.
Setting range： -50m/s ～ 0m/s
Initial value： 0.0m/s

Offset

Melody	New Normal		6.6V
Variometer	+1.3m/s		
Range	↑ +5.0m/s	↓ -5.0m/s	
Offset	0.0m/s		
Dead band	↑ 0.0m/	↓ 0.0m/s	
Delay	0.0 sec		

This is the changing point of climb and sink. When the variometer is greater than this value, Vario Melody is climb type. When the variometer is less than this value, Vario Melody is sink type.
Setting range： Range ↑ setting value ～ Range ↓ setting value
Initial value： 0.0m/s

[The relation of Vario Melody settings]

Range ↑	Fixed melody
Deadband ↑	Variable melody
Offset	Dead band (Not sound)
Deadband ↓	Variable melody
Range ↓	Fixed melody

Climb side Discontinuous sounds

Sink side Continuous sounds

Delay

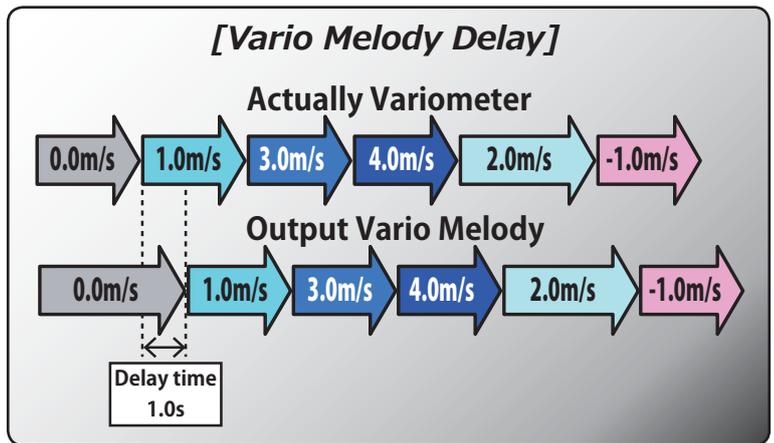| Melody	New Normal			6.6V
Variometer	+1.3m/s			
Range	↑ +5.0m/s		↓ -5.0m/s	
Offset	0.0m/s			
Dead band	↑ 0.0m/s		↓ 0.0m/s	
Delay	0.0 sec.			

The output vario melody does not change during the delay time. In other words, this is a minimum time of Vario melody output.
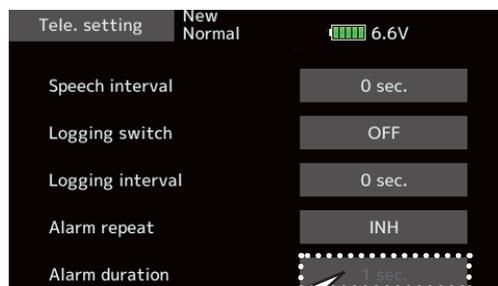**Setting range**：0.0 s, 0.5 s, 1.0 s, 1.5 s
Initial value：0.0 s

[Vario Melody Delay]

Actually Variometer

0.0m/s 1.0m/s 3.0m/s 4.0m/s 2.0m/s -1.0m/s

Output Vario Melody

0.0m/s 1.0m/s 3.0m/s 4.0m/s 2.0m/s -1.0m/s

Delay time 1.0s

*This parameter is effective to all variometers.

2.Telemetry Alarm Duration and Repeat time

The repeat time and duration time for the telemetry alarm (buzzer, vibration and speech) can be set.

Tap the [Telemetry Setting] button in the Linkage menu to call the setup screen shown below.

Tele. setting	New Normal	6.6V
Speech interval		0 sec.
Logging switch		OFF
Logging interval		0 sec.
Alarm repeat		INH
Alarm duration		1 sec.

Duration is not displayed when Repeat is **INH**.

Duration
It is an alarm output time.
Setting range：1 s ～ 30 s
Initial value：INH
Duration value has to be less than repeat value.
Duration time is extended when the other alarm event occurs.

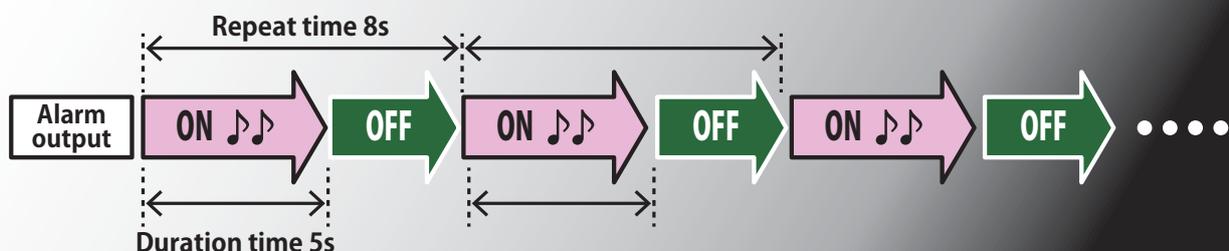| Tele. setting	▼▼	▼	▲	▲▲
Speech interval				0 sec.
switch				OFF
Logging in				0 sec.
Alarm repeat				20 sec.
Alarm duration				5 sec.
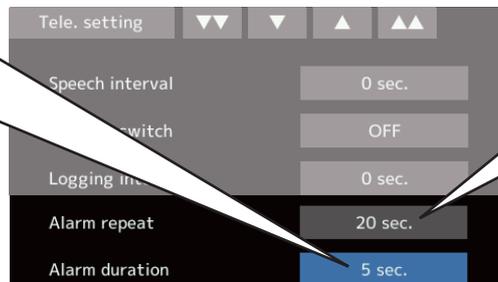
Repeat
It is a repeat time of an alarm output.
Setting range：INH, 1 s ～ 240 s
Initial value：INH

[Duration and Repeat time for Telemetry Alarm]

e.g. Repeat time is 8 seconds and Duration time is 5 seconds.

Repeat time 8s

Alarm output

ON ♪♪ OFF ON ♪♪ OFF ON ♪♪ OFF ● ● ● ●

Duration time 5s

3.French speech localization

French localization of telemetry speech function is available. If you would like to use the French speech function, update software of your T18SZ to the French version of the new software.

4.Stick mode

Mode 3 and 4 have been added.

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1) Select the System Menu.
2) Touch the [Information] button.
3) Confirm that the information in the display indicates the version numbers as noted above.

1. Fault corrections : V1.9 (trainer)

A defect, the trainer function does not work properly in S-FHSS mode, has been fixed.

2. Fault corrections : V1.8 (setup screen with curve setting)

If you make a mixing setting that moves a master function to enormous travel, for example Programmable mixing whose master and slave are assigned to any same function, T18SZ restarts as you open a setup screen of a mixing that uses the master function.

3. Change of a sensor name : V1.8

"Kosmik ESC" has been changed to "Kontronik ESC".

4. Korean language : V1.7

Korean language is available. Choose "Korean" from Language select buttons in the Information screen.

5. Fault corrections : V1.6 (GPS Indication)

A problem of the data from GPS units unshown were founded on V1.5 software. Due to this, V1.6 software is correct the issue.

6. Hysteresis-type and box-type can be selected in a hardware select screen.

When a stick, trim lever, or VR is used as a switch, the following 4 modes can be selected.

◆ Linear・Hysteresis mode

This setting method selects function ON/OFF based on the set point. Hysteresis (dead band) can be set to ON and OFF. The ON and OFF positions can be reversed with the Reverse button.
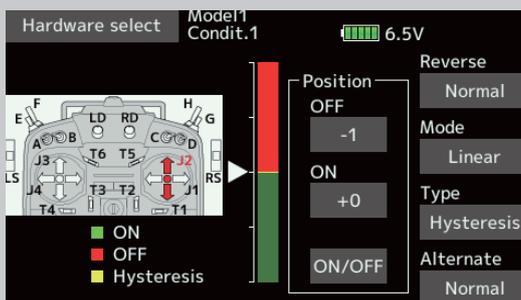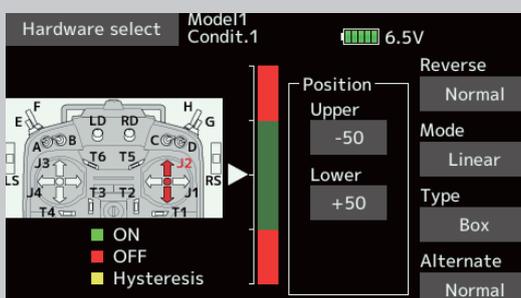
◆ Symmetry・Hysteresis mode

The operation is the same as the linear hysteresis mode, but left and right (up and down operations are symmetrical about the neutral position. For example, when you want to switch DR1 with the aileron stick, when the stick is moved to the left or right, DR1 can be turned ON at the same left and right position.
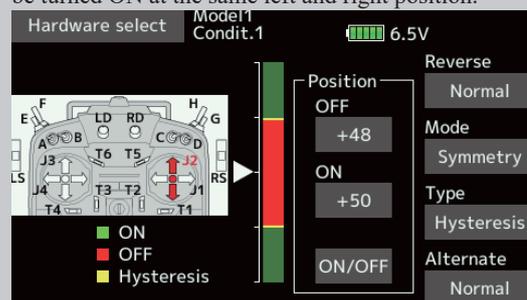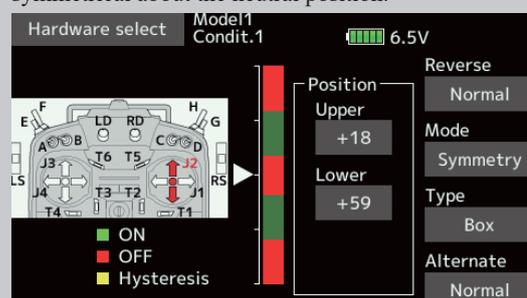
◆ Linear・Box mode

This mode turns on the switch within a range of 2 points. Each point can be set. The ON and OFF positions can be reversed with the Reverse switch.

◆ Symmetry・Box mode

The operation is the same as the linear box mode, but left and right (up and down) operation is symmetrical about the neutral position.

When shifting the ON/OFF point

The ON/OFF and hysteresis (dead band) boundary point (there are 2 points: top and bottom) position can be shifted. ON/OFF is possible at a free position.

◆ **Area Green：ON**

◆ **Area Red：OFF**

◆ **Area Yellow：Hysteresis (Dead band)**

[Setting method]

1. **Move the stick, etc. to the point you want to shift and touch the [ON/OFF] button. The boundary points change.**
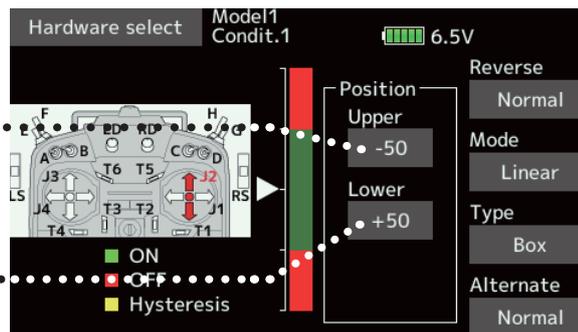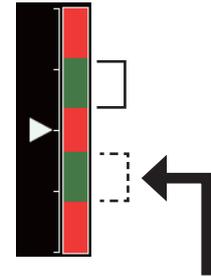
Current stick position
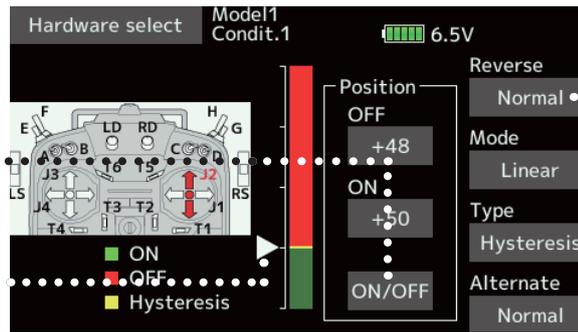
Reverse of ON/OFF direction

[Setting method] → Box Type

1. **Move the stick to the point you want to shift upper side.**
2. **Touch the [Upper] button. The boundary points change.**
3. **Move the stick to the point you want to shift lower side.**
4. **Touch the [Lower] button. The boundary points change.**

● **Symmetry**

When Upper (Lower) is set, at the same time, Lower (Upper) is also set.
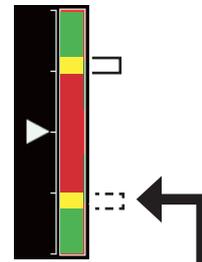

Hysteresis ：Hysteresis (dead band) can be set to ON and OFF

[Setting method] → Linear Type

1. **Move the stick to the off point you want to shift and touch the [OFF] button. The off points change.**
2. **Move the stick to the on point you want to shift and touch the [ON] button. The on points change.**
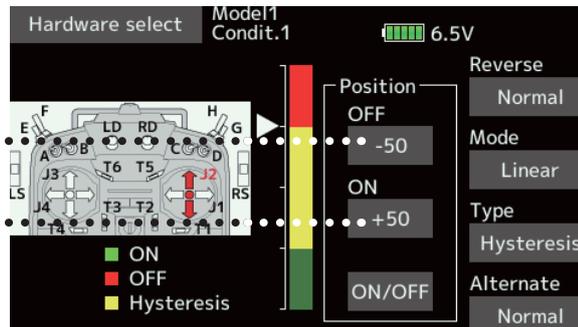
● **Symmetry**

When Upper (Lower) is set, at the same time, Lower (Upper) is also set.

---

7. It corresponded to the following sensors.

Refer to the sensor instruction manual for more information.

■ *Kontronik ESC*

■ *Castle TL0*

■ *JetCat V10*

■ *PowerBox*

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1) Select the System Menu.
2) Touch the [Information] button.
3) Confirm that the information in the display indicates the version numbers as noted above.
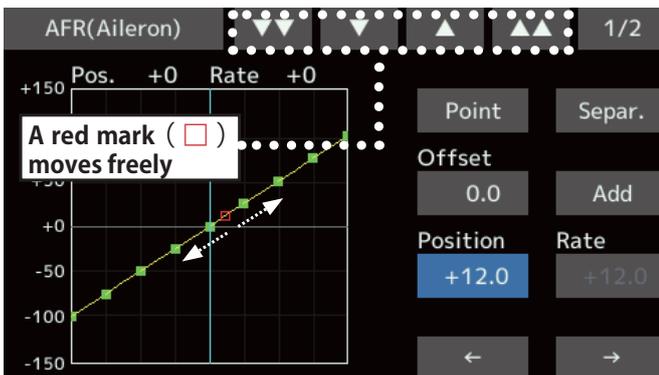
1. Curve setting operation

Point curves or spline curves of up to 11/17 points can be used. (Initial value: 11/9 points) **The set points can be freely increased,** decreased, and offset.

◆ Point addition method

① Open the screen of a mixing curve with the curve function.

EXP 1	Close
EXP 2	
Point	
Spline	

The kind of mixing curve

The red point (■) moves (to green point)
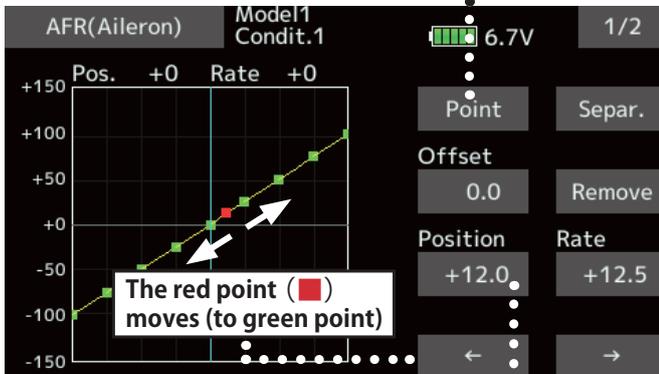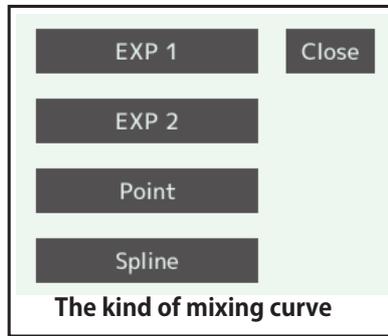
② Tap the "Position" button.
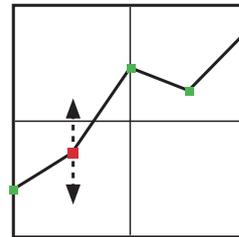

A red mark (□) moves freely

③ Tap the " ▼▼ " " ▼ " " ▲ " " ▲▲ " button and select the position (mark □) you want to add.

④ When the "Add" is tapped, the point is added.
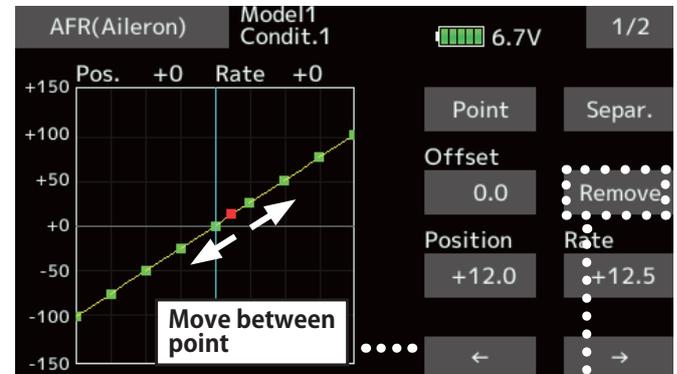(□) → (■)

 *A new point is created.

⑤ Press "Rate" and use the up/down arrows to adjust the rate points up or down.

◆ Point deletion method

① Use the move between points button [←] or [→]

and select the point. (The red point ■ is the selected point.)

Move between point

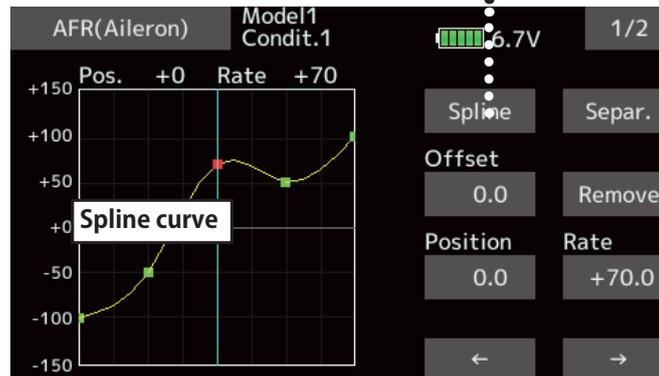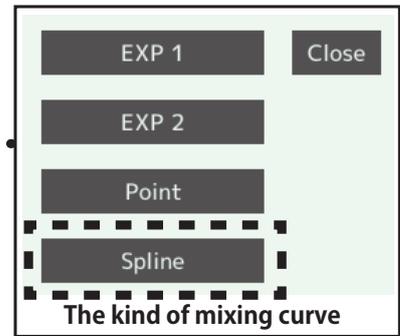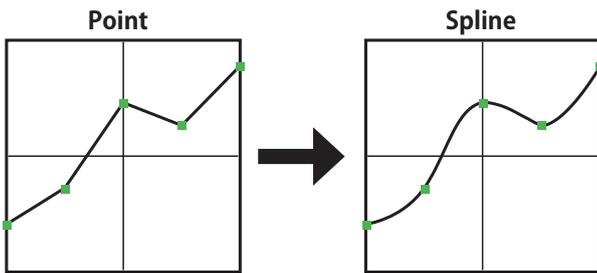② Tap the [Remove] button. (The selected point becomes an outlined point □)

③ Use the move between points button [←] or [→].

 *The point is deleted.

2. Curve setting operation Spline curve

Addition of spline curve setting.

Setting method is same at spline and point.

Point

Spline

EXP 1　　Close

EXP 2

Point

Spline

The kind of mixing curve

Spline curve

---

3. SBS-01C current sensor function

The T18SZ has been made compatible with the SBS-01C current sensor. The SBS-01C has the capability of measuring current, voltage and capacity (consumption) from drive battery at the same time.

*Current sensor must be installed in the aircraft.

Drive Battery

to Receiver

SBS-01C

ESC

Motor
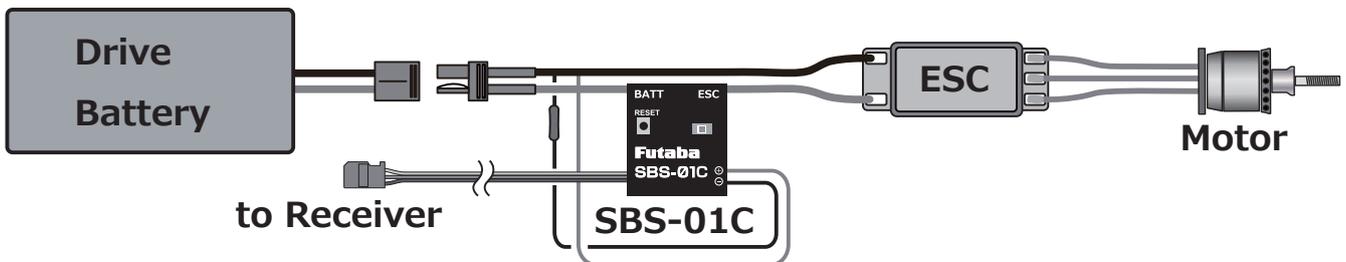
◆ SBS-01C is registered with a transmitter.

T18SZ

S.I/F
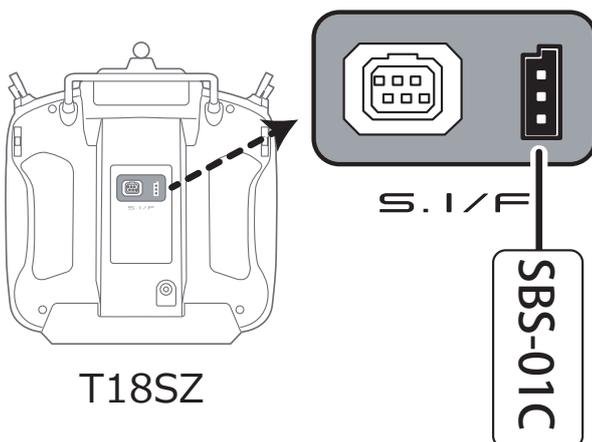
SBS-01C

① Connect the sensor to the T18SZ as shown in the figure above.

② **[Linkage menu]** → **[Sensor]** → **[Page 3/3]** is opened from the T18SZ.

③ Tap **[Register]**

④ Complete registration and remove SBS-01C from the transmitter.

◆ Calling of a current sensor screen.

① **[Linkage menu] → [Telemetry]**

② Tap **[Current]**

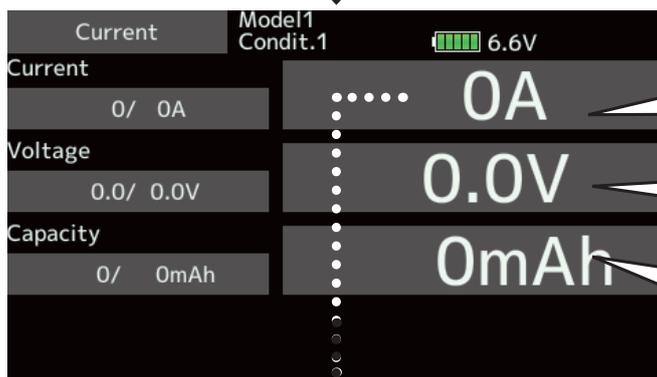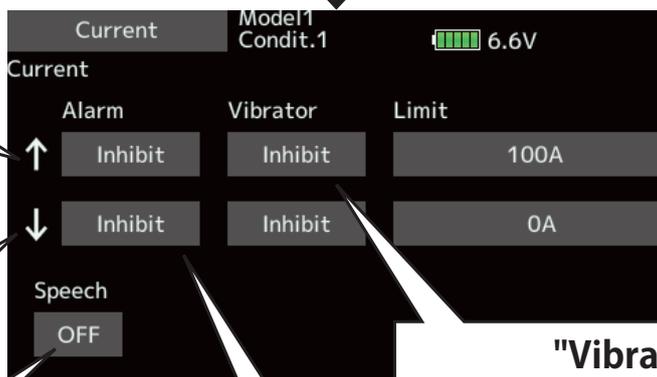| Telemetry		🔋 8.0V	3/3
16	Current	• • • • • • • •	
Current	---		
Voltage	---		
Capacity	---		

◆ Current sensor screen

Current	Model1 Condit.1	🔋 6.6V
Current		**0A**
0/ 0A		
Voltage		**0.0V**
0.0/ 0.0V		
Capacity		**0mAh**
0/ 0mAh		

Max. and min. values since the power was turned ON will display.

Tapping this will take you to the settings screen for the current alarm

Tapping this will take you to the settings screen for the voltage alarm

Tapping this will take you to the settings screen for the consumption capacity alarm

◆ Alarm setting

Current	Model1 Condit.1	🔋 6.6V
Current		
Alarm	Vibrator	Limit
↑ Inhibit	Inhibit	100A
↓ Inhibit	Inhibit	0A
Speech		
OFF		

↑ An upward arrow indicates the alarm will sound when the current reaches above your set value.

↓ A downward arrow indicates the alarm will sound when the current reaches below your set value.

The ON/OFF switch of Speech is chosen.

Alarm is chosen from Buzzer, Voice, and Inhibit.

A setup of the current on which the alarm operates.

"Vibrator" type

If the following types are selected, the transmitter will vibrate during the warning.

Type 1 ⟶

Type 2 ⟶   ⟶

Type 3 → → → →

4. SD card icon

● **When model data on a SD card is used, this icon appears.**

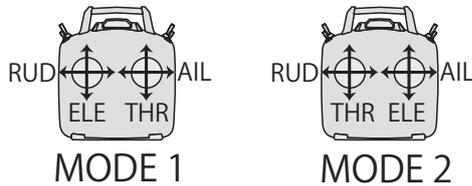| Futaba Corp.	Model1
Rx ---	**Futaba** Condit.1 🔋 6.6V
Ext ---	**T18SZ**
00:00.0	**00:00.0**
+0	+0
Linkage menu	**AIRPLANE**
Model select +0	+0
+0	+0
08:52:37	FASSTest 18CH On air '15/11/04 18:24
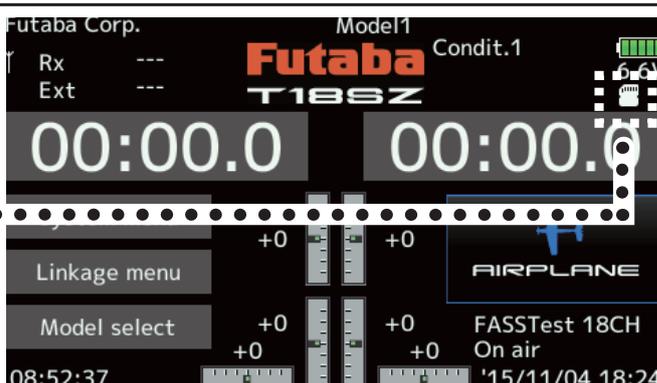
5. Stick mode

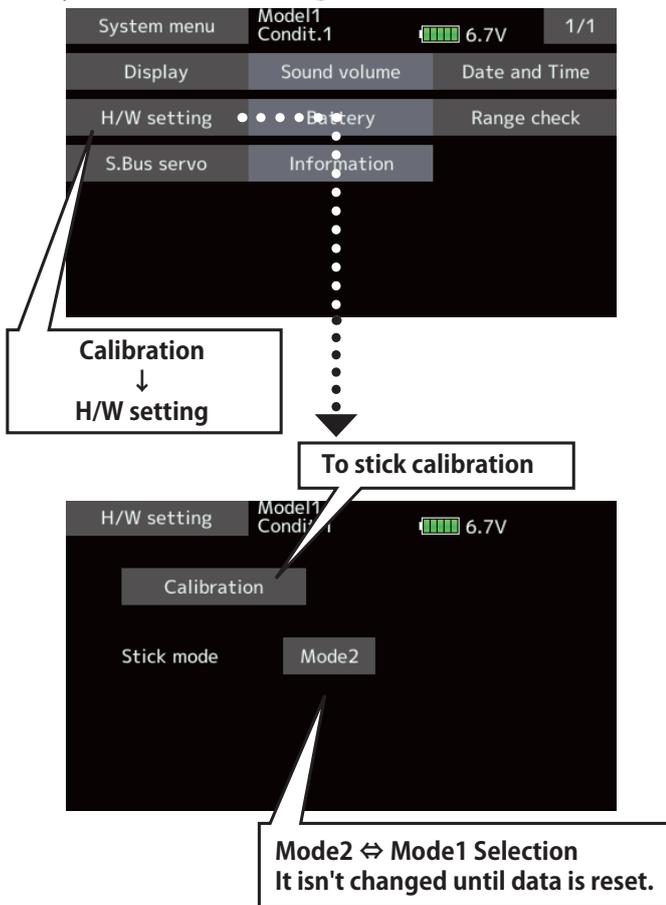Addition of stick mode function.

Mode 2 or Mode 1 can be chosen.

But, it isn't changed until data is reset.

To change the mode the stick ratchet must be changed. Request that this be done by Futaba Service. (Charged modification)

RUD ◁▷ ◁▷ AIL
ELE THR
MODE 1

RUD ◁▷ ◁▷ AIL
THR ELE
MODE 2

◆ System menu change

System menu	Model1 Condit.1	📶 6.7V	1/1
Display	Sound volume	Date and Time	
H/W setting	● ● ● Battery	Range check	
S.Bus servo	Information		

Calibration
↓
H/W setting

To stick calibration

H/W setting	Model1 Condit.1	📶 6.7V	
Calibration			
Stick mode	Mode2		

Mode2 ⇔ Mode1 Selection
It isn't changed until data is reset.

6. Throttle stick position alarm
< Airplane/Glider >

When the old version makes the function of the throttle stick a motor, a throttle stick position alarm has not started.

When the new version makes the function of the throttle stick a motor, a throttle stick position alarm has started.
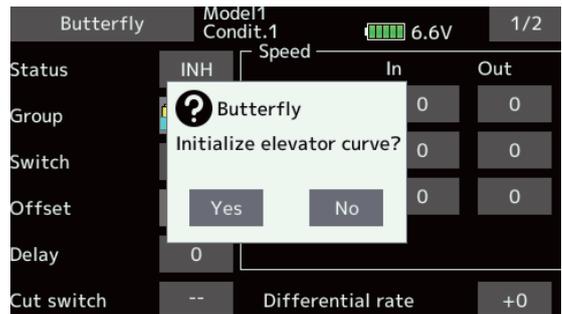
7. Name change on the model menu
< Airplane/Glider >

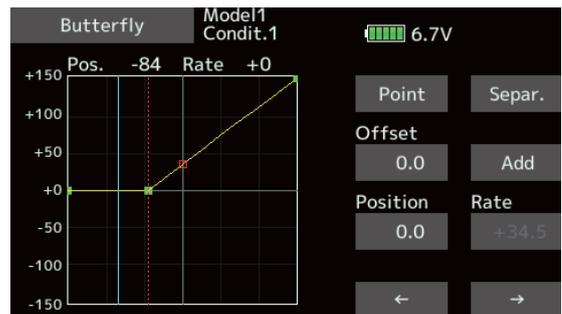| Model menu	Model1 Condit.1	📶 6.4V	1/2
Servo monitor	Condition select	AFR	
Dual rate	Program. mixes	Aileron differential	
Flap setting	AIL → Camber flap	AIL → Brake flap	
Aileron → Rudder	Elevator → Camber	Camber mixing	
Airbrake → ELE	Camber flap → ELE	Rudder → Aileron	
Rudder → Elevator	Snap roll	Air brake	

8. Butterfly elevator curve function
< Glider >

● When offsetting the butterfly operation reference point, operate to the point you want to change and then touch the Offset button. The reference point displays 0%. When [Yes] is touched, the reference point is changed. Then, "Initialize elevator curve?" appears, allowing you to confirm your setting.

Butterfly	Model1 Condit.1	📶 6.6V	1/2
Status	INH	In	Out
Group		0	0
Switch	**?** Butterfly	0	0
Offset	Initialize elevator curve?	0	0
Delay	Yes No		
Cut switch	--	Differential rate	+0

● The offset position is indicated by a red dotted line by an elevator curve.

Butterfly	Model1 Condit.1	📶 6.7V	
Pos. -84 Rate +0		Point	Separ.
		Offset	
		0.0	Add
		Position	Rate
		0.0	+34.5
		←	→

9. T-FHSS dual receiver function
< T-FHSS >

The dual receiver function can't be used for T-FHSS. When T-FHSS is chosen, dual receiver function isn't shown on a system type screen.