Futaba

1M23Z04313

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.

Tap the [Set] button
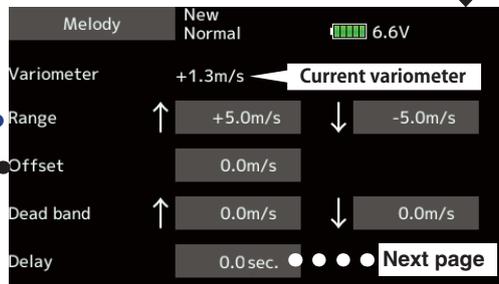
*These settings can be set each sensors.

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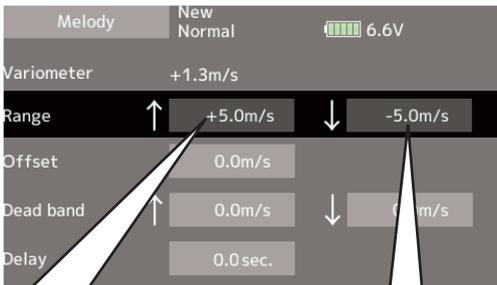
When the variometer is greater than this value, Vario melody is not variable.
Setting range：
Offset value ～ +50m/s
Initial value：5.0m/s

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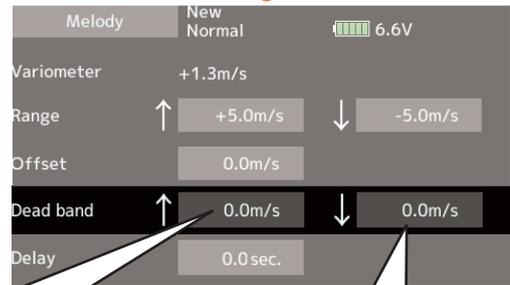
When the variometer is less than this value, Vario melody is not output.
Setting range：0m/s ～ +50m/s
Initial value：0.0m/s

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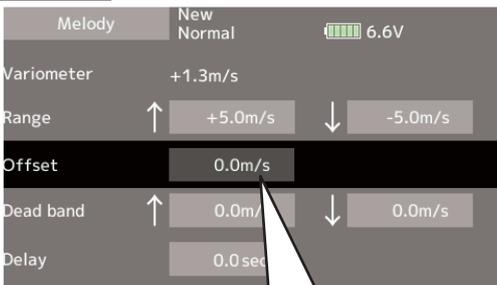
This is the changing point of climb and sink. When the variometer is greater than this value, Vario Melody is climb type. When the variometer is less than this value, Vario Melody is sink type.
Setting range：Range ↑ setting value ～ Range ↓ setting value
Initial value：0.0m/s

[The relation of Vario Melody settings]

- 1 -

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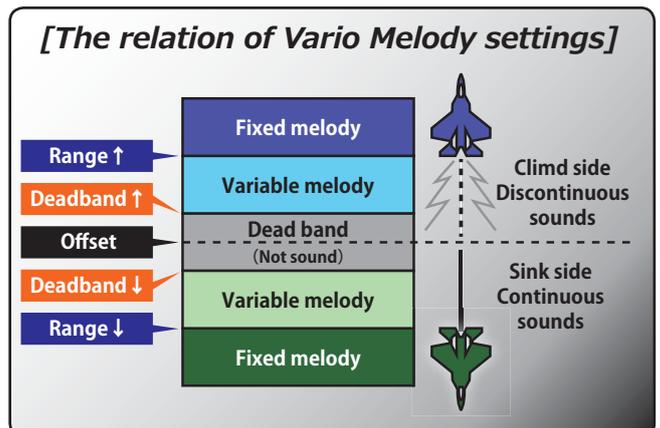
The output vario melody does not change during the delay time. In other words, this is a minimum time of Vario melody output.
Setting range：0.0 s, 0.5 s, 1.0 s, 1.5 s
Initial value：0.0 s

[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.
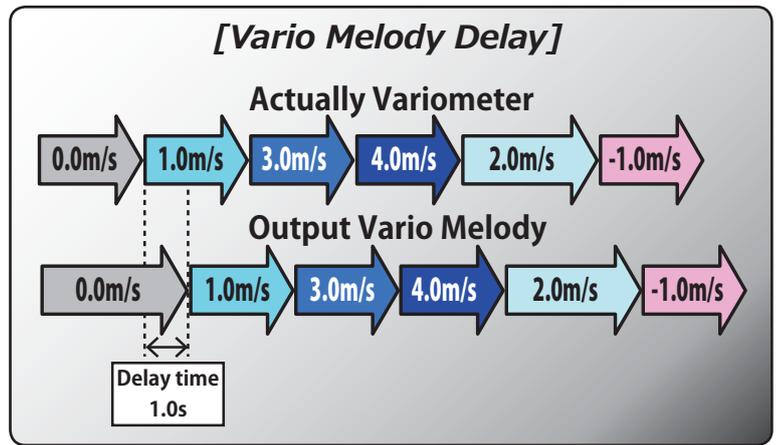
2.Telemetry Alarm Duration and Repeat time

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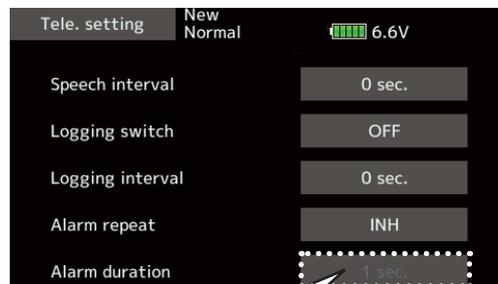
Duration is not displayed when Repeat is **INH**.

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.
...witch		OFF
Logging in...		0 sec.
Alarm repeat		20 sec.
Alarm duration		5 sec.
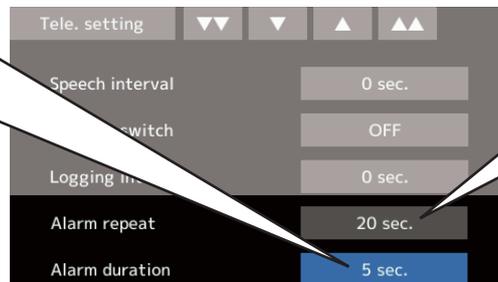
Repeat
It is a repeat time of an alarm output.
Setting range：INH, 1 s ～ 240 s
Initial value：INH

[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
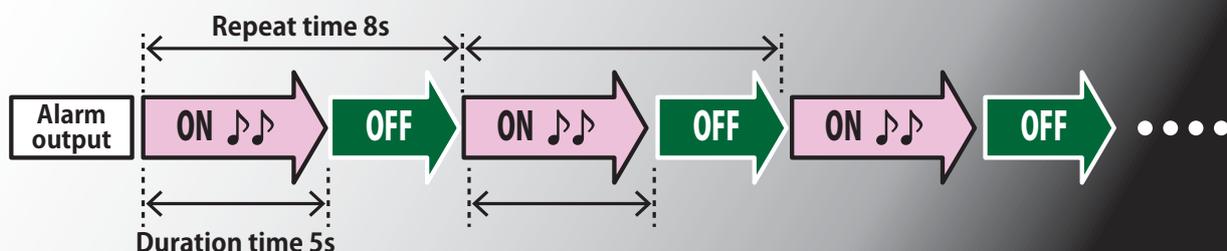
3.French speech localization

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.

T18SZ SOFTWARE UPDATE CHANGES

V1.5 - V1.9

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. 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.
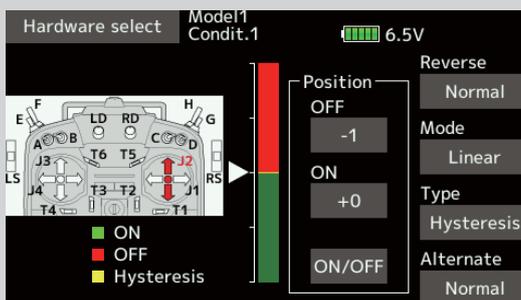

◆ Symmetry・Hysteresis mode

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.
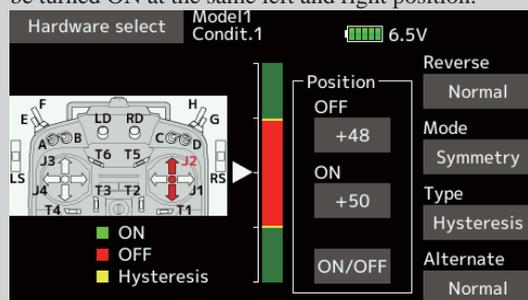
◆ Linear・Box mode

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.
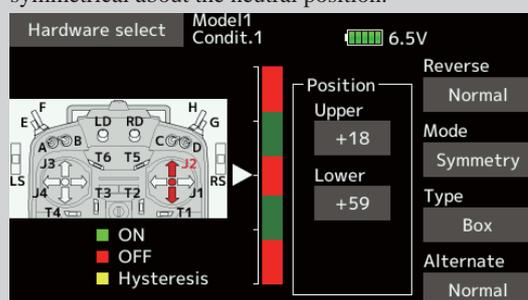
When shifting the ON/OFF point

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
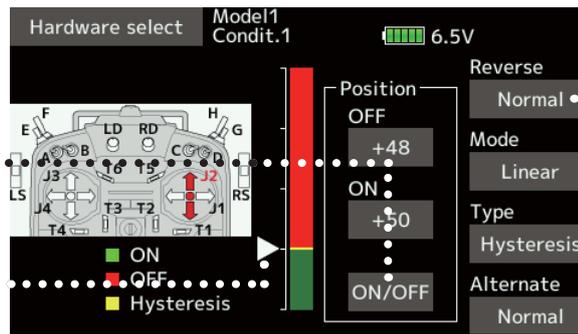
Reverse of ON/OFF direction

[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.
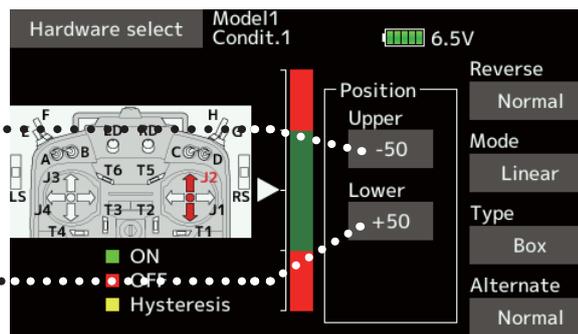
● **Symmetry**
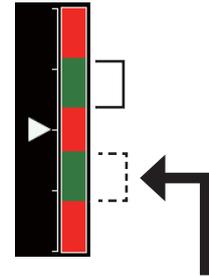
When Upper (Lower) is set, at the same time, Lower (Upper) is also set.

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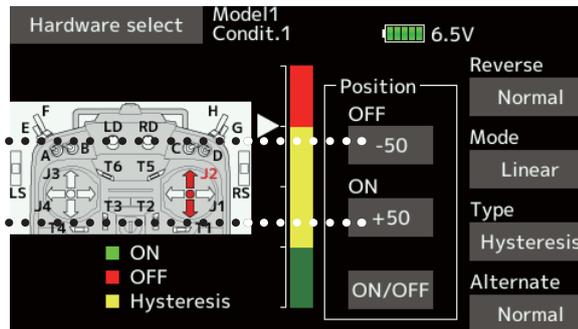
● **Symmetry**
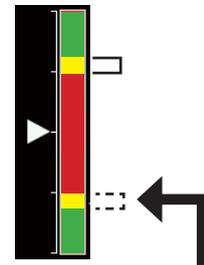
When Upper (Lower) is set, at the same time, Lower (Upper) is also set.

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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
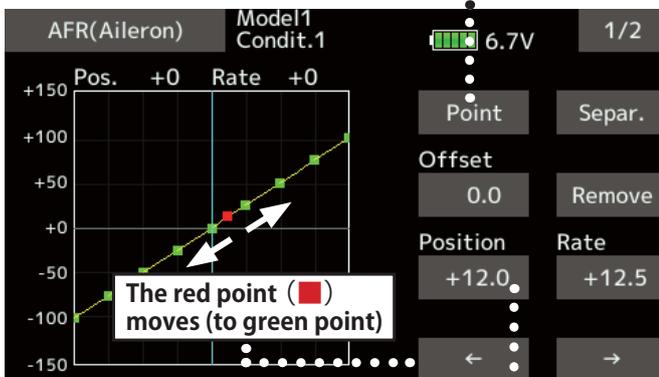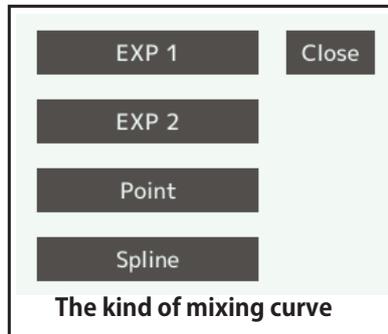
② Tap the "Position" button.

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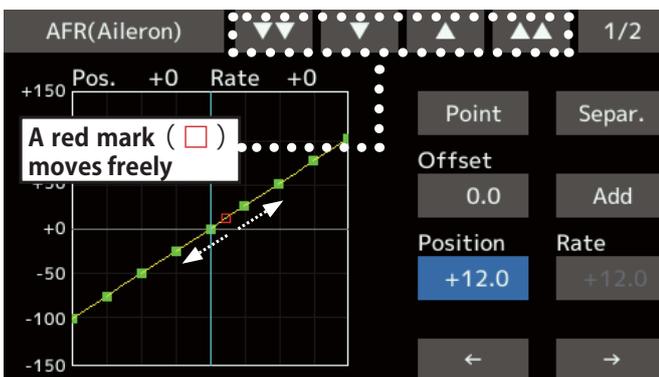
③ Tap the " ▼▼ " " ▼ " " ▲ " " ▲▲ " button and select the position (mark □) you want to add.

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.
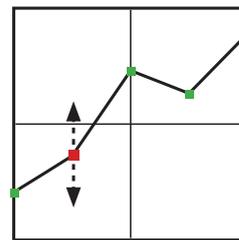
◆ Point deletion method

① Use the move between points button [←] or [→] and select the point. (The red point ■ is the selected point.)
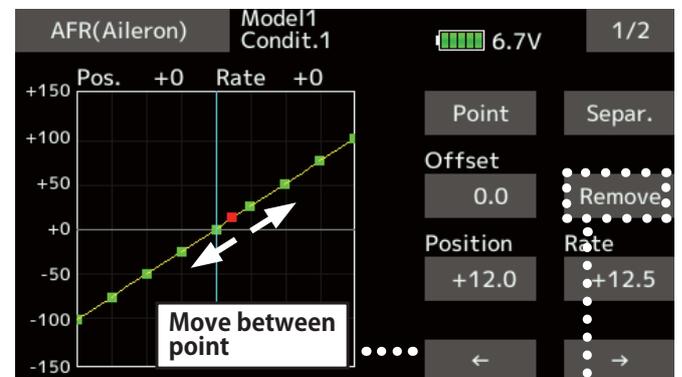
Move between point

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

The kind of mixing curve

Spline curve
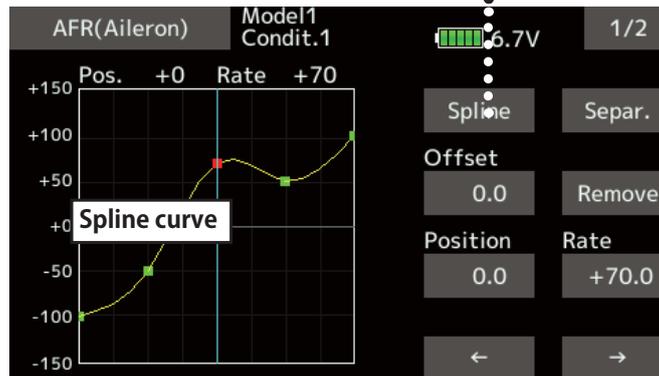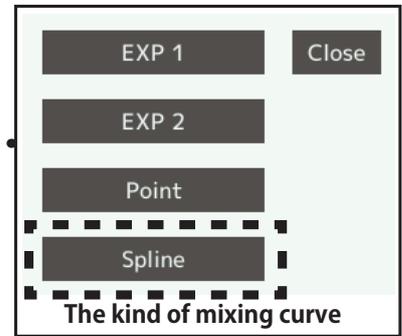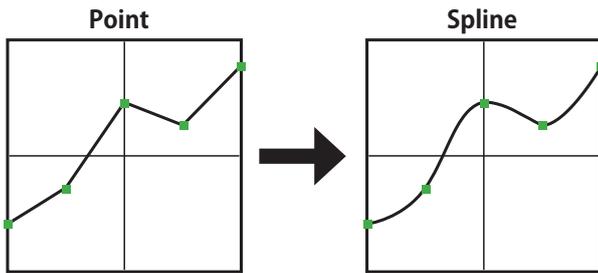
3. SBS-01C current sensor function

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
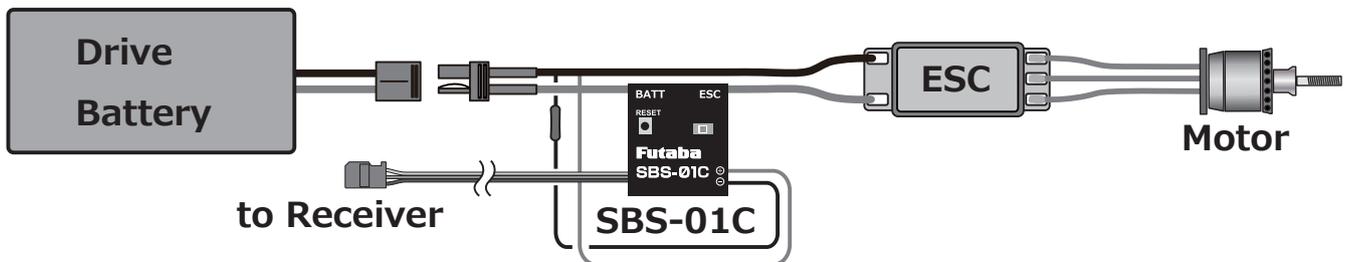
◆ SBS-01C is registered with a transmitter.

T18SZ   S.I/F   SBS-01C
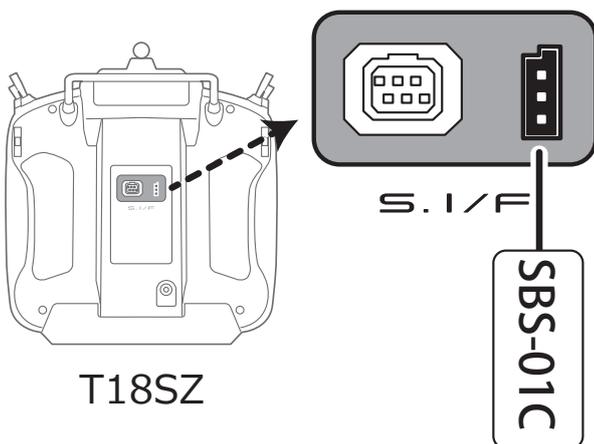
① Connect the sensor to the T18SZ as shown in the figure above.

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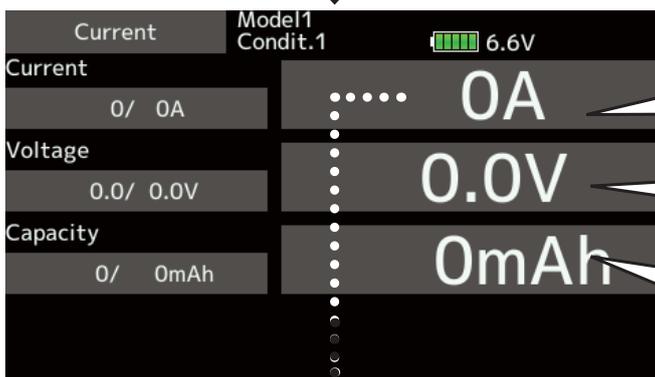
Max. and min. values since the power was turned ON will display.

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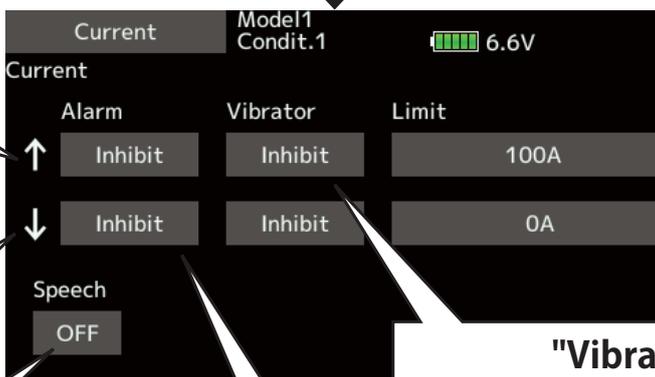
↑ An upward arrow indicates the alarm will sound when the current reaches above your set value.

↓ 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	FASSTest 18CH On air
08:52:37	+0	+0	'15/11/04 18:24
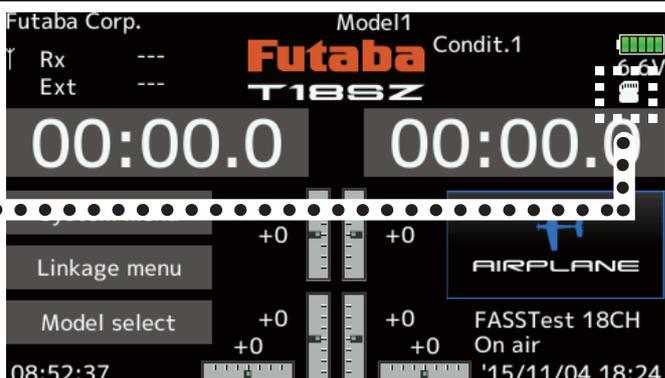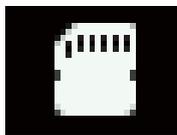
5. Stick mode

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.
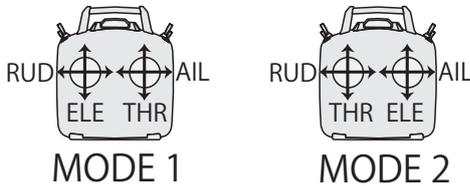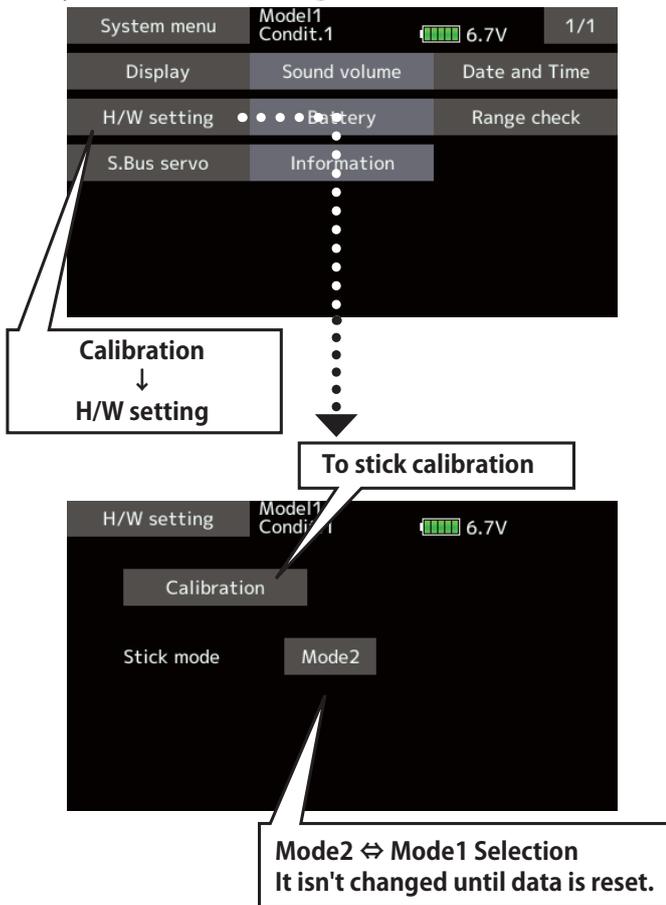
6. Throttle stick position alarm
< Airplane/Glider >

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
		Speed	
Status	INH	In	Out
Group		0	0
Switch		0	0
Offset		0	0
Delay	0		
Cut switch	--	Differential rate	+0

(?) Butterfly
Initialize elevator curve?
Yes   No
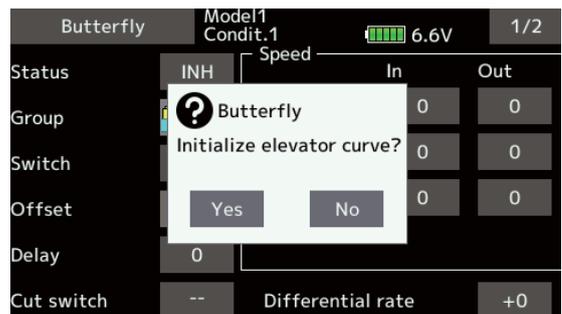
● The offset position is indicated by a red dotted line by an elevator curve.

Butterfly	Model1 Condit.1	📶 6.7V	
Pos. -84 Rate +0		Point	Separ.
		Offset	
		0.0	Add
		Position	Rate
		0.0	+34.5
		←	→
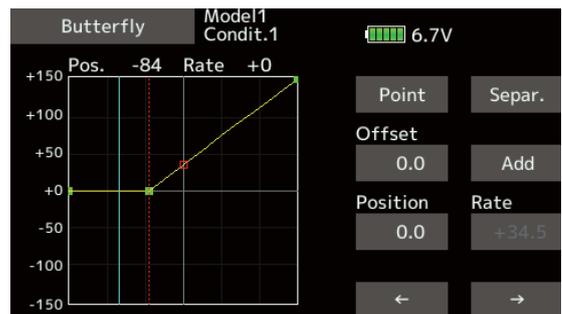
9. T-FHSS dual receiver function
< T-FHSS >

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.