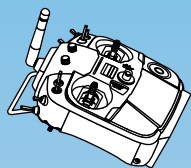# Futaba

TMA-1   App User Manual

◆ *A transmitter and a receiver are equipped with a Futaba telemetry system are required.*

◆ *A tablet or a smart phone Android™ version 3.2 〜 4.4 is needed.*

◆ *The Futaba telemetry adapter TMA-1 is required.*

◆ *Telemetry sensor(s) is/are required.*

◆ *It is necessary to attach a sensor to the model according to the instruction manual of the telemetry sensor.*

◆ *TMA-1 and telemetry receiver have to be linked, according to the instruction manual a TMA-1.*

◆ *Turn OFF the Wi-Fi function (2.4 GHz) on the tablet or smart phone.*

◆ *The display screen of this manual is an example of a tablet. The display may change in part when a smart phone is used as compared to a tablet.*

How to make TMA-1 app display that has telemetry sensor data on your tablet or smartphone.
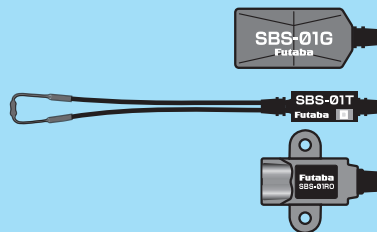
In Telemetry Receiver
In Telemetry Sensor
The selected model

FASSTest or T-FHSS receiver

Telemetry Receiver（Option）

SBS-Ø1G
Futaba

SBS-Ø1T
Futaba

Futaba
SBS•01RO

● **Telemetry Receiver（Option）**

SBS-01T,SBS-01TE （Temperature sensor）
SBS-01A （Altitude sensor）
SBS-01RM （Magnet type R.P.M sensor）
SBS-01RO （Optical type R.P.M sensor）
SBS-01G （GPS sensor）
SBS-01V （Voltage sensor）
（2015. 01）

It has the same setting of a sensor slot number the transmitter.

The power supply of TMA-1 is supplied from the tablet or smart phone.

TMA-1

Receiver and TMA-1 are linked.

OTG (USB On-The-Go) host cable

The telemetry data such as altitude, temperature and voltage are displayed.
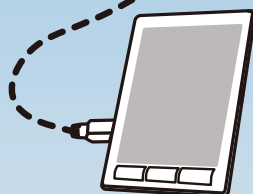
Check to see if the TMA-1 app is installed on your tablet or smartphone.

The TMA-1 apps could be downloaded from Google Play store.

Table of contents

Start-up TMA-1

Visit Google Play store and download the Futaba TMA-1 apps on your tablet or smart phone. If the TMA-1 apps was downloaded correctly. **"Futaba TMA-1"** icon will appear on the screen.

If you've installed the TMA-1 app on your phone or tablet then you will find **"Futaba TMA-1"** icons.

Touch the TMA-1 icon to start it.

Troubleshooting

1. When TMA-1 doesn't work on your device.(phone or tablet) go to Developer options on the tablet or phone, tap **"Setting"**→**"Developer Options"** → **"USB debugging"** for enabling.

When you cannot find the Developer options, Navigate to **"Setting"** → **"About (device) "** → **Scroll to bottom** → **Tap build number seven times.** You'll get a short pop-up in the lower area of your display setting that **"you are now a developer"**.

* How to call "Developer Options" with the tablet and smart phone to be used differs. Please confirm by the tablet to be used or the manual of a smart phone.
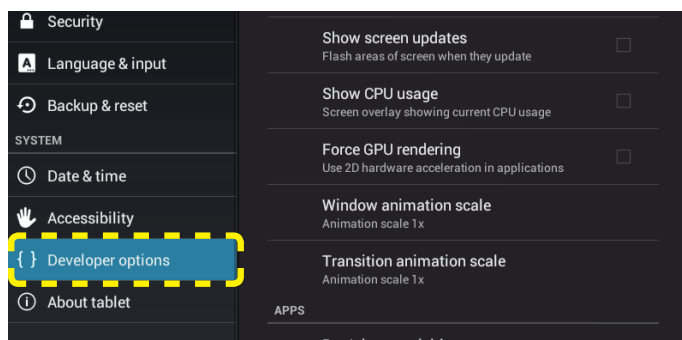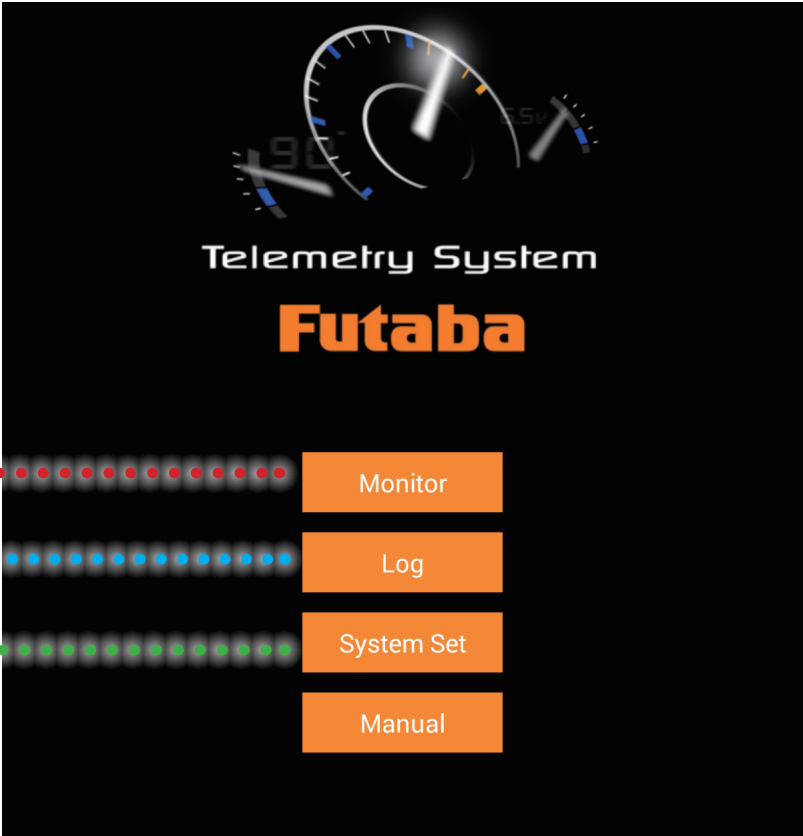

2. Enable USB Debugging.
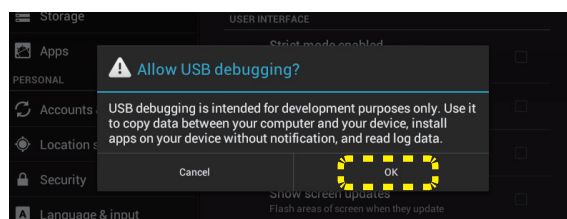
Tap **"Futaba TMA-1"** icon.

◆ Monitor : Each telemetry sensor data can be displayed on the screen.

◆ Log : Record telemetry data.

◆ System Set : Select FASSTest or T-FHSS in accordance with your radio system.
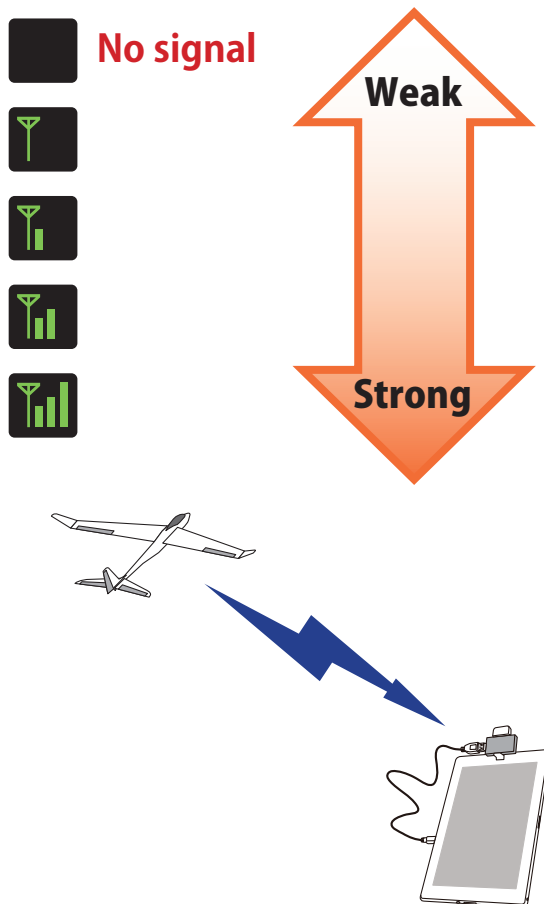
Monitor

Multiple sensor data can be shown on one screen. This app offers a streamlined approach. (see. Page7)
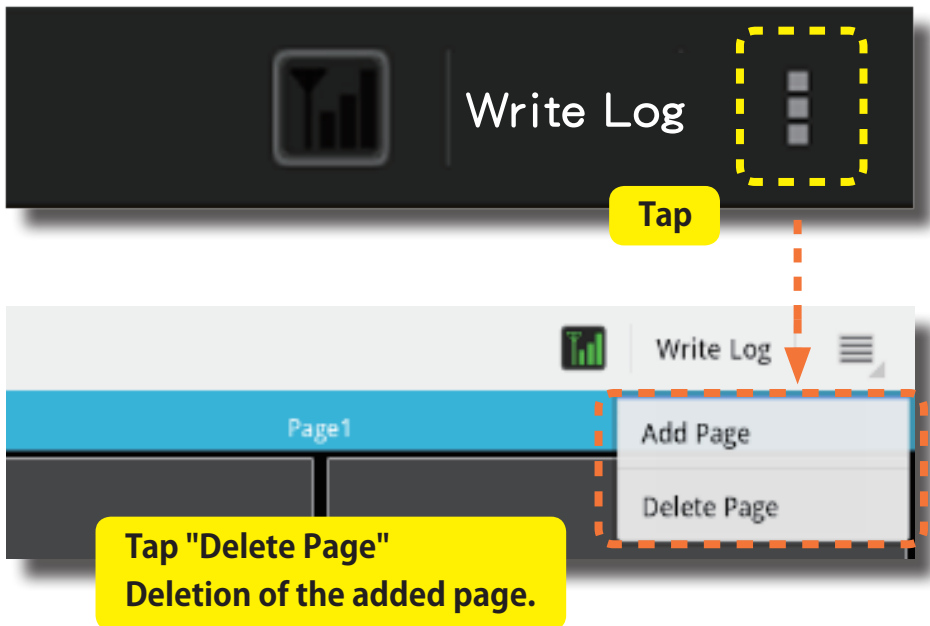
1. Receiving Signal Level

Signal level of the TMA-1 from a receiver can be checked by the signal level icon that is on the upper right of your screen.
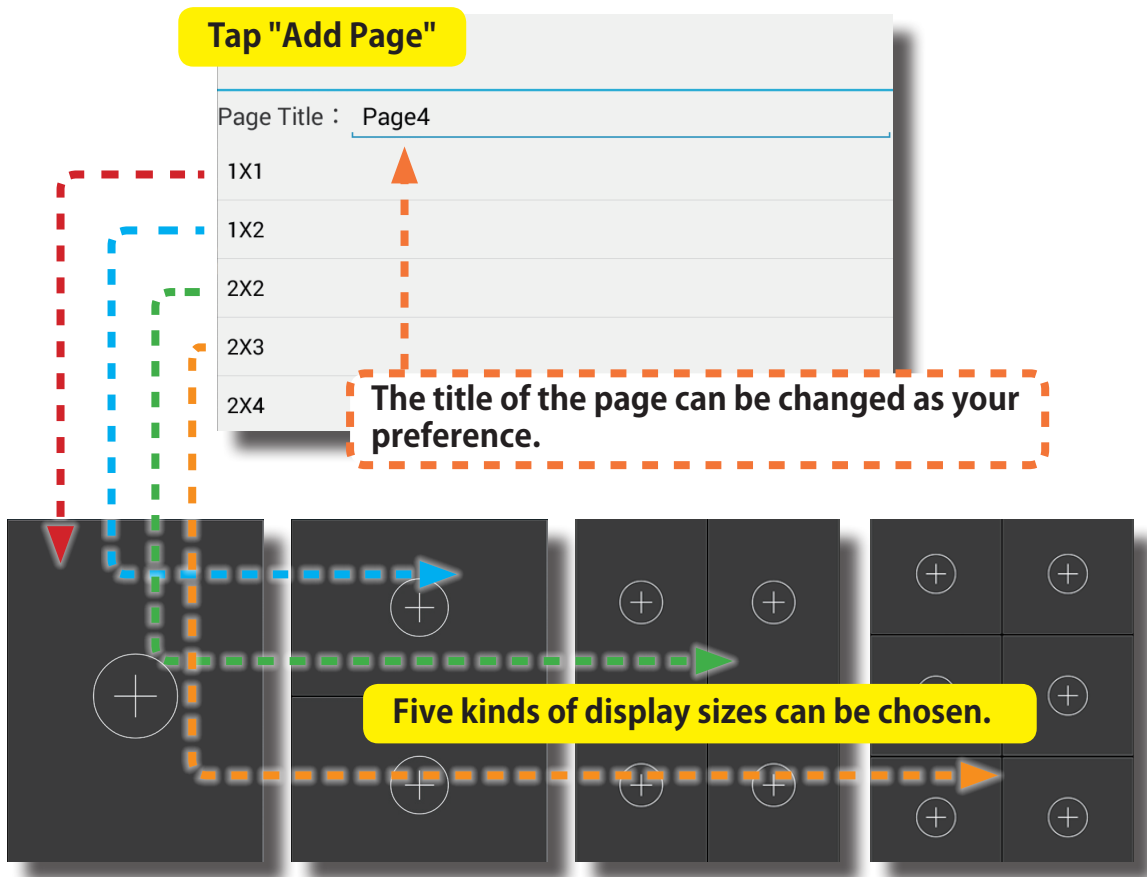
*It does not show the signal level from a transmitter to a receiver.

2. Sensor Setting

Write Log

Tap

Write Log

Page1

Add Page

Delete Page

Tap "Delete Page"
Deletion of the added page.

◆ Add Page

Tap "Add Page"

Page Title： Page4

1X1

1X2

2X2

2X3

2X4

The title of the page can be changed as your preference.

Five kinds of display sizes can be chosen.

◆ Sensor Setting

Long press ⊕ button

Settings ----> **Add a sensor on the page**

Remove ----> **Delete a sensor from the page**

Reset ----> **Initialize the page setting**

◆ Servo Monitor

Device Servo

"Servo" is chosen in device option

Confirm   Cancel

DG1   DG2

100

30.7 -64.8   65.7   26.3   65.7   65.7   65.7   65.7
0
33.0 -64.7   65.7 -59.0   65.7   65.7   65.7   21.9

-100   1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

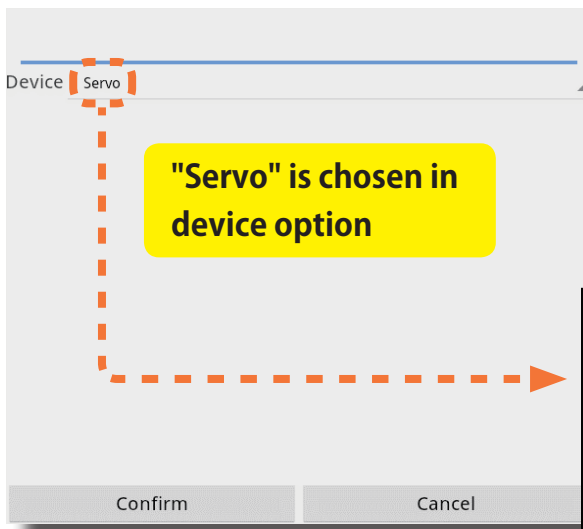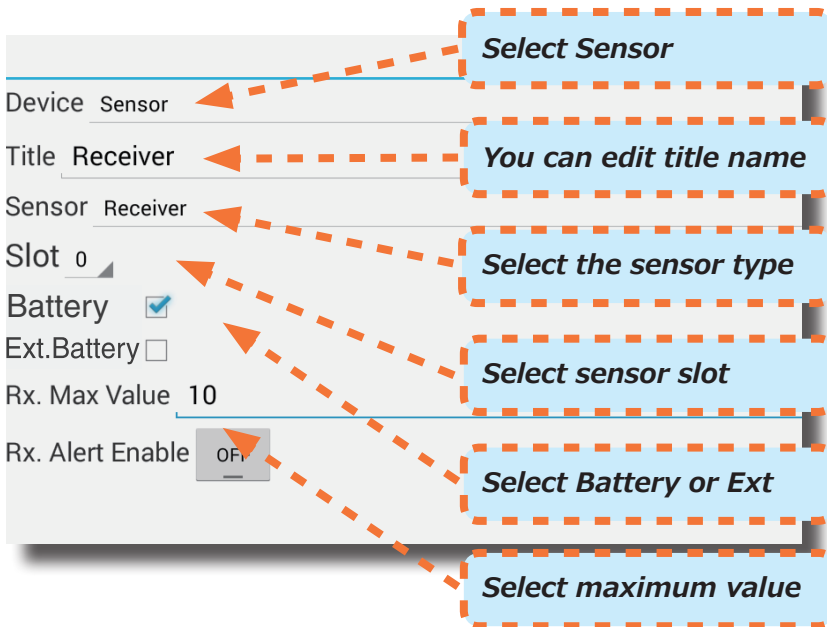## ◆ Receiver & External Battery Voltage   < Setting >

TMA-1 can display the receiver and external battery voltage.

**Long press the ⊕ button → Setting → Device → Sensor
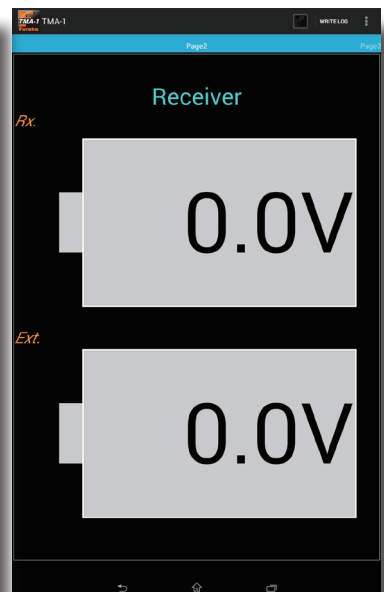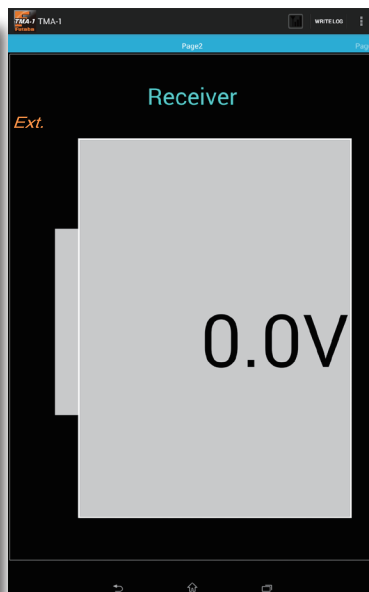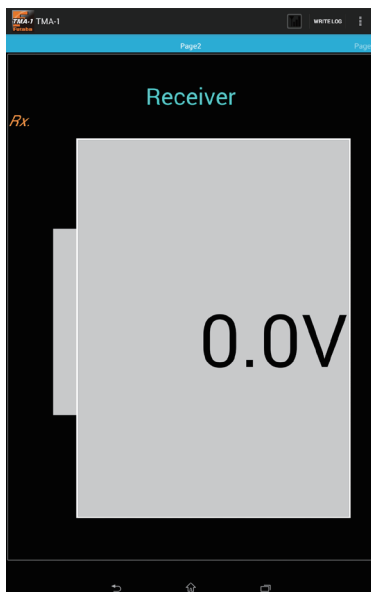or receiver voltage display item pushed for a long time, this
display will appear.**

Device Sensor

Select Sensor

Title Receiver

You can edit title name

Sensor Receiver

Select the sensor type

Slot 0

Battery ✔

Select sensor slot

Ext.Battery ☐

Rx. Max Value 10

Select Battery or Ext

Rx. Alert Enable OFF

Select maximum value

Battery ✔

Ext. Battery ✔

Battery ✔
Ext. Battery ✔

TMA-1 TMA-1   WRITE LOG
Page2   Page2
Receiver
Rx.
0.0V

TMA-1 TMA-1   WRITE LOG
Page2   Page2
Receiver
Ext.
0.0V

TMA-1 TMA-1   WRITE LOG
Page2   Page2
Receiver
Rx.
0.0V
Ext.
0.0V

◆ Receiver & Voltage　　　　　　　　< Alert >

High/Low voltage alarm can be enabled with sound and red blink early screen.

Device Sensor
Title Receiver
Sensor Receiver
Slot 0
Battery ☑
Ext.Battery ☑
Rx. Max Value 10
Rx. Alert Enable ON　　　→ **Set receiver alarm**
Rx. Alert Max 10　　　　　→ **Set maximum value**
Rx. Alert Min 0　　　　　　→ **Set minimum value**
Ext. Max Value 10
Ext. Alert Enable ON　　　→ **Set external voltage alarm**
Ext. Alert Max 10　　　　　→ **Set maximum value**
Ext. Alert Min 0　　　　　　→ **Set minimum value**

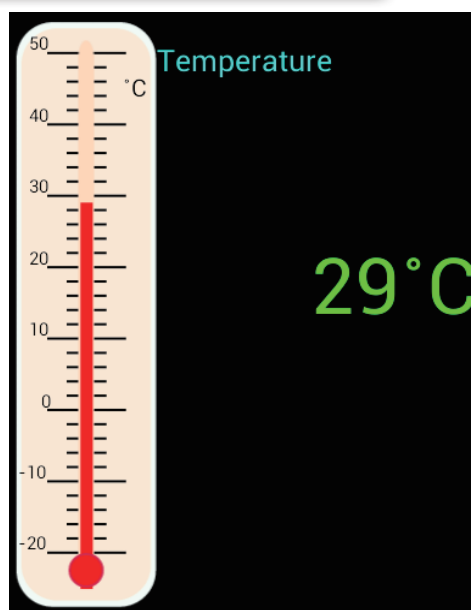Page2
Receiver
Rx.
4.9V
Ext.
0.0V

Alert Display
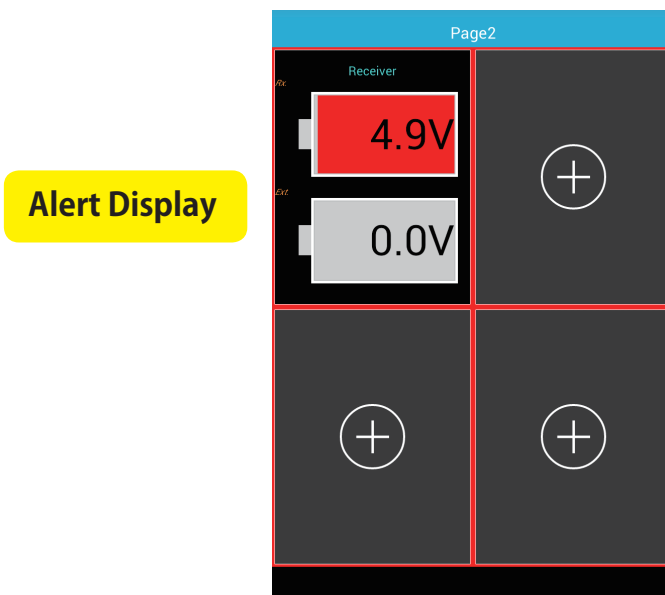
Temperature is displayed. (TMA-1 can display the value of the temperature sensor.)

Long press the ⊕ button → Setting → Device → Sensor or temperature display item pushed for a long time, this display will appear.

Device   Sensor

Select Sensor

Title   Temperature

You can edit title name

Sensor   Temperature

Unit   ˚C

Select Temperature

Slot   1

Max Value   50

Select the Unit (℃ or ℉)

Alert Enable   OFF

Select sensor slot

Select maximum value

| Confirm | Cancel |

Temperature
˚C

29˚C

High/Low temperature alarm can be enabled.

Device	Sensor
Title	Temperature
Sensor	Temperature
Unit	˚c
Slot	1
Max Value	50
Alert Enable	ON
Alert Max	20
Alert Min	-20

Set Alarm

Set maximum value

Set minimum value

Confirm   Cancel

Alert Display

Page2

Temperature

29˚C
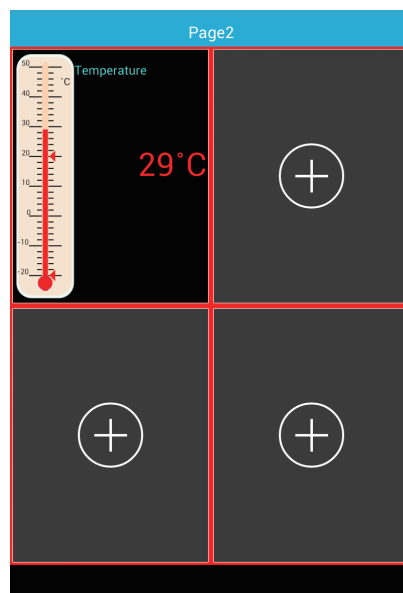
RPM is displayed. (TMA-1 can display the value of the RPM sensor.)

Long press the ⊕ button → Setting → Device → Sensor
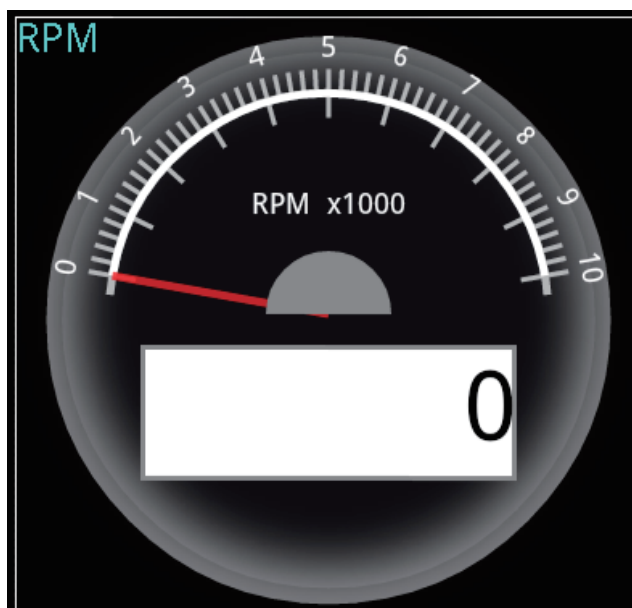**or RPM display item pushed for a long time, this display will**
appear.

Device   Sensor

Title   RPM

Sensor   RPM

Type   Optics

Slot   1

Range   2

Max Value   10

Alert Enable   OFF

Confirm

Select Sensor

You can edit title name

Select RPM

Select Types (Optics or Magnet)

Select sensor slot

Optics → Number of fins   Magnet → Gear Ratio

Select maximum value

RPM
RPM x1000
0

High/Low RPM alarm can be enabled.

Device Sensor

Title RPM

Sensor RPM

Type Optics

Slot 3

Range 2   (2~1

Set Alarm

Max Value 10   X 1000 rpr

Set maximum value

Alert Enable ON

Alert Max 6000

Set minimum value

Alert Min 1000

Confirm   Cancel

Alert Display

RPM

RPM x1000

0
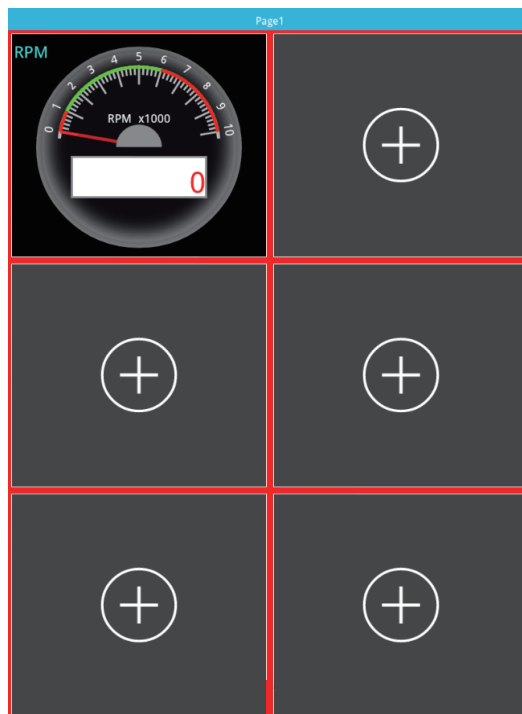
Altitude is displayed. (TMA-1 can display Altitude sensor)

Long press the ⊕ button → Setting → Device → Sensor
or Altitude display item pushed for a long time, this display will
appear.

Device   Sensor

Select Sensor

Title   Altitude

You can edit title name

Sensor   Altitude

Altitude is chosen

Slot   1

Altitude Unit   m

In accordance with a transmitter, it chooses the slot 1～5、8～13、16～21、24～29

Variometer Unit   m/s

Alert Enable   OFF

Select altitude unit you can select either (m) or (ft)

Select variometer unit you can select either (m/s) or (mph)

Confirm	Cancel

Altitude

10

Var. :   **0** m/s

Alt. :   **1** m

0

Pre. :   **1002.9** hPa

< *Altitude reset* >

By long pressing the altitude item, you'll get a menu to reset altitude sensor.

Settings

Remove

Reset

Please [Reset] the altitude sensor before flight. It will display the altitude as its 0m.
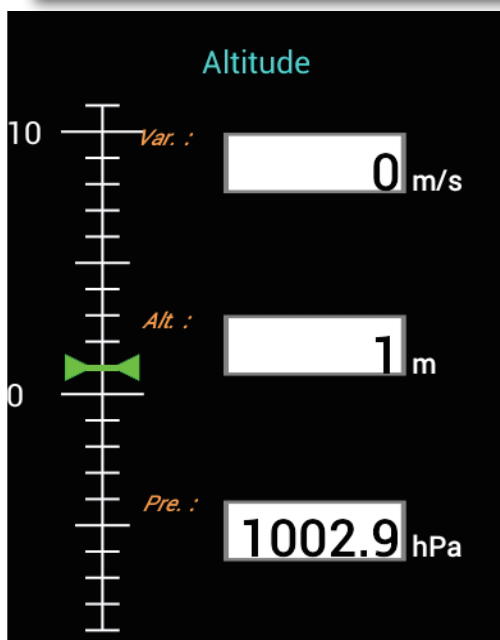
High/Low altitude alarm can be enabled.

Device	Sensor
Title	Altitude
Sensor	Altitude
Slot	16
Altitude Unit	m
Variometer Unit	m/s
Alert Enable	ON
Alert Max	200
Alert Min	-30

Set Alarm

Set maximum value

Set minimum value

Confirm   Cancel

Alert Display

Page1

Altitude

Var. : **-71** m/s
-120
Alt. : **-126** m
-130
Pre. : **1023.0** hPa
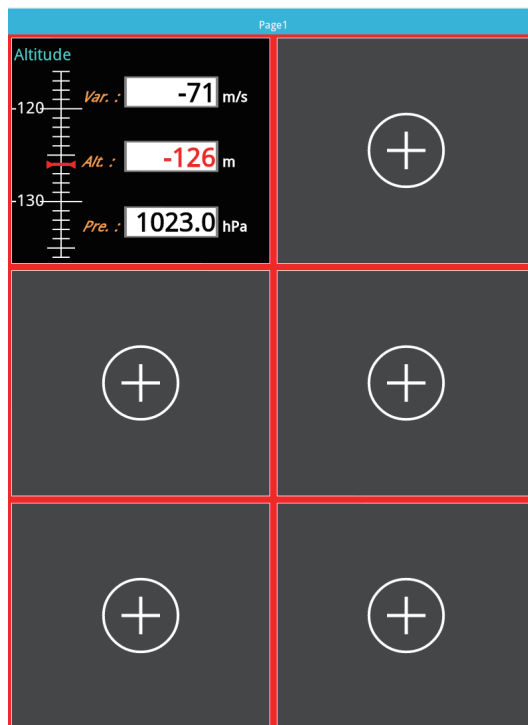
GPS is displayed. (TMA-1 can display the GPS sensor)

Long press the ⊕ button → Setting → Device → Sensor or GPS display item pushed for a long time, this display will appear.

Select Sensor

Device Sensor

You can edit title name

Title GPS

Sensor : GPS

GPS is chosen

Slot 8

Altitude Unit m

In accordance with a transmitter, it chooses the slot 8、16、24

Variometer Unit m/s

Speed Unit km/h

Select altitude unit you can select either (m) or (ft)

Select variometer unit you can select either (m/s) or (mph)

Confirm

Select speed unit you can select either (km/h) or (m/h)

< *Distance reset* >

Page2　　　　　　　　Page2

GPS

GPS :

Dis. :　　　**0.0** m

Speed :　　　**0.0** km/h

Alt. :　　　**0.0** m

Var. :　　　**0.0** m/s

By long pressing the GPS item, you'll get a menu to reset GPS sensor.

Settings

Remove

Reset

Please [Reset] the GPS sensor before flight. It will display the distance as its 0m.

The controller monitor sets the course of the model to be sure the model stays on that course.

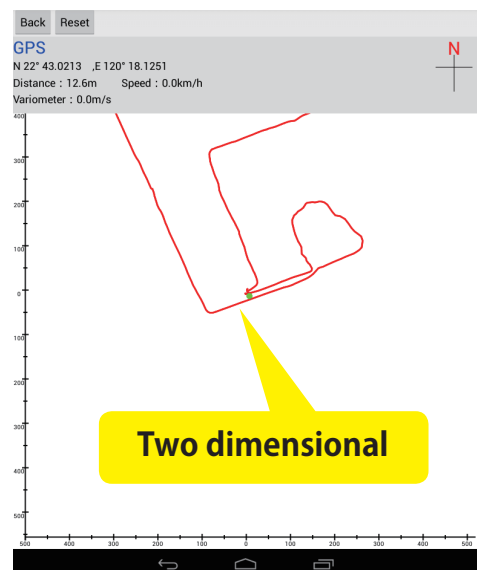**Long press the ⊕ button → Setting → Device → Sensor or GPS Locus display item pushed for a long time, this display will appear.**

Device   Sensor

Title   GPS

Sensor   GPSLocus

Slot   24

Sensor is chosen

You can edit title name

Select GPS Locus

In accordance with a transmitter, it chooses the slot 8、16、24

Confirm   Cancel

＜ *Zoom-in* ＞

Double-tap anywhere on the GPS Locus of screen to magnify the screen.

Back   Reset

GPS
N 22° 43.0213   ,E 120° 18.1251
Distance : 12.6m   Speed : 0.0km/h
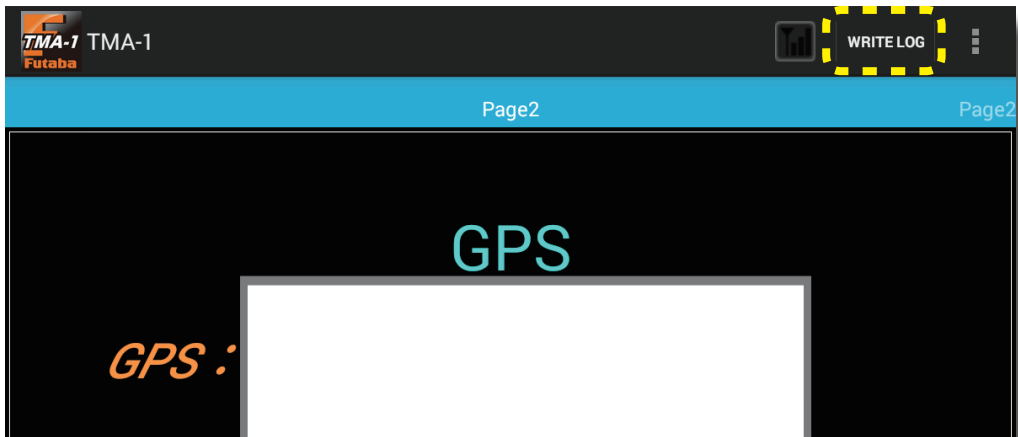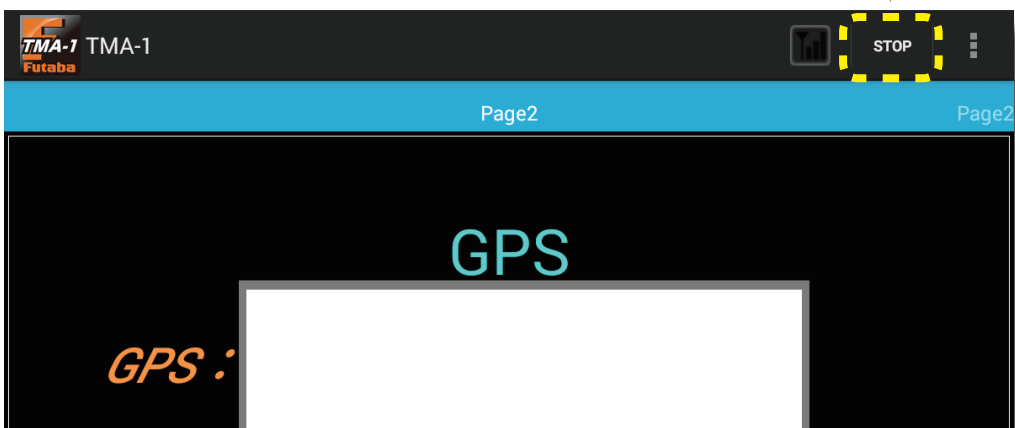Variometer : 0.0m/s

Two dimensional

Log

TMA-1 can take and save sensor log data as text data.

1. Start Data Logging
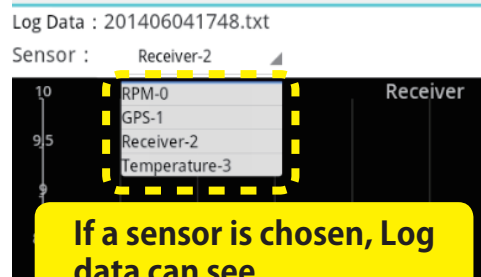
Tap this button to start data logging

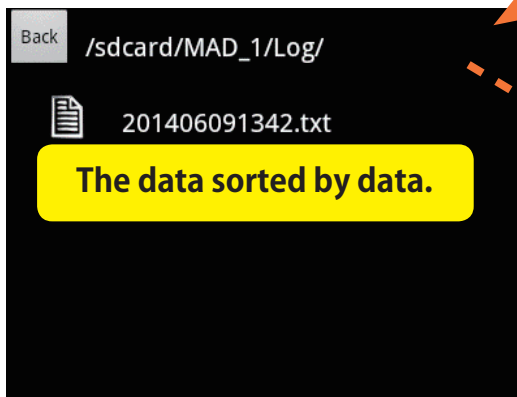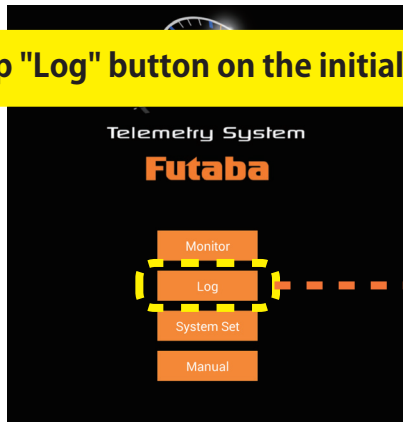**Tap this button again to stop the data logging**

2. Check Log Data

Tap "Log" button on the initial screen.

Telemetry System
Futaba

Monitor
Log
System Set
Manual

Log Data :
Sensor :

Open   Clear

Back   /sdcard/MAD_1/Log/

📄   201406091342.txt

The data sorted by data.

Log Data : 201406041748.txt
Sensor :   Receiver-2

10	RPM-0	Receiver
	GPS-1	
9.5	Receiver-2	
	Temperature-3	
9		

**If a sensor is chosen, Log data can see.**

3. Save Log Data

Log data is stored on the folder **Internal storage → TMA_1 → Log** of the tablet smart phone.
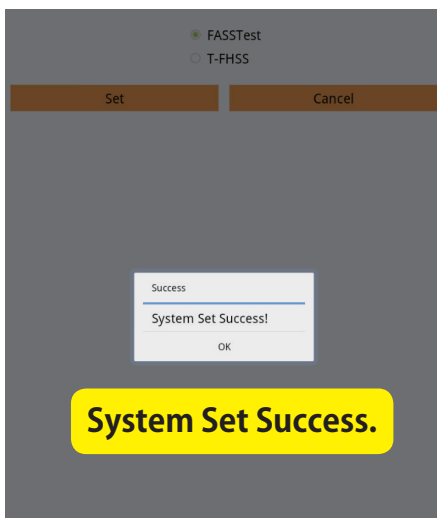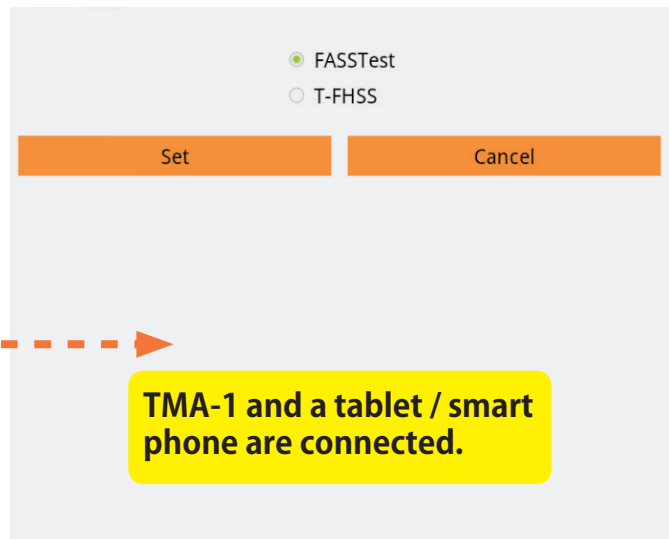
System Set

The TMA-1 app can be used on **FASSTest** and **T-FHSS** system.

1. Note

1. When you would like to change your transmission system, reset the TMA-1.
2. Turn OFF the receiver and transmitter before switching the transmission system (FASSTest or T-FHSS)
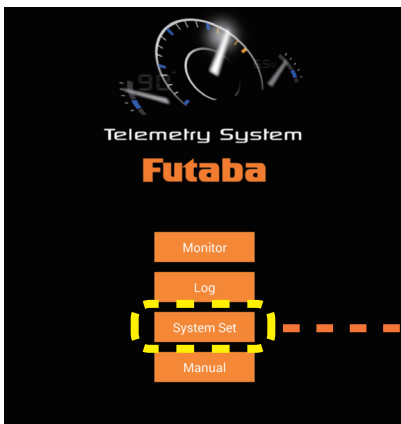
Tap the "System Set" button on the screen

TMA-1 and a tablet / smart phone are connected.

System Set Success.

Error

Error message: Please confirm link or restart link device.
Start by selecting either a tablet or smart phone.

Language

This system supports two languages, English and Japanese. You can select the language, English or Japanese by using the language bar in tablet or phone.

About

Tap the "About" button to find the software version.

Setting

Screen mode, alert sound and defaults can be set in this system.