



Tempo Plus 2 App
For iOS and Android



Instruction Guide



General Principles of Operation

Congratulations on purchasing a Blue Maestro Tempo Disc Sensor Beacon and Data Logger ("**Device**"). A benefit of a Blue Maestro Device is the breadth and depth of available user defined settings allowing you to set the Device as you like.

This Instruction Guide is designed principally for Blue Maestro Tempo Disc Temperature and Humidity Sensor Beacons and Data Loggers but all of Blue Maestro's Devices share the same principles underpinning the Android and iOS apps (hereafter the term '**App**' will be used to refer to both Android and iOS apps). So the general functionality and many of the commands are the same regardless of which type of Blue Maestro Tempo Disc Device you may have.

This Guide will be kept updated but the speed of development of the apps may mean there are new features or changes to features which are not reflected in this Guide from time to time. We suggest you check the support pages of the Blue Maestro website (www.blumaestro.com) regularly for the latest app guidance.

If there are any features you are not sure of please feel free to contact support@blue-maestro.com who will be able to assist.

Sensor Beacon and Data Logger compatible with Bluetooth

Each Tempo Disc Device is a Wireless Sensor Beacon and Data Logger. That is to say it "beacons" current sensor data and certain Device information and does not form a connection or bond with your smartphone unless a command is being issued or a download is occurring. As a consequence your Device may not appear as a connected device in your Bluetooth settings. This is normal.

The Device will continuously transmit current values, such as battery level, log count, logging interval, temperature, humidity and so on. This is why it is described as a beacon. The App will scan, parse and display this data on your smartphone. This means many users can see the same data at the same time. There is no limit to how many users can see the data from the same Device.

The Device acts as a data logger in that at each interval (defined as the Logging Interval) a reading will be taken and stored in the memory of the Device for future download. There is a set number of data points that can be logged by the Device in its memory. Once memory capacity is reached, the oldest values are replaced with new values in a circular buffer fashion. When this occurs, the log count will show the maximum number stored for your particular Device.

Data Integrity

The Device has a number of features that prevents logged data from being manipulated, making it ideal for use in temperature critical applications where the readings can have consequences.

Firstly the logging interval in the Device is not able to be changed without the stored log in the Device being erased. Secondly, a Reference Date is able to be stipulated which sets the date and time of the first log. If this is changed, the stored log in the Device is also erased. Both of these features prevents a user from manipulating stored logs in the Device.

Viewing Data and Report Generation

The Device allows downloaded data to be viewed in graphs or exported in a CSV format by way of email.

Please visit bluemaestro.com for access to excel templates and instructions on how you can generate pdf reports from your Blue Maestro Device once you have exported in the data in CSV format.

Bluetooth Connection Issues

From time to time users may experience Bluetooth connection issues with their smartphones. This is predominantly caused by different versions of iOS and Android implementing Bluetooth a little differently and the choice of physical Bluetooth chips in the smartphones themselves. Android is generally more prone than iOS to suffering Bluetooth connectivity issues.

Thankfully most Bluetooth issues can be resolved by restarting your smartphone. Blue Maestro has prepared a separate paper on Bluetooth connection issues which can be found at www.bluemaestro.com/support-and-resources/

There are also some general Troubleshooting Tips found at the end of this Guide.

Download the App

Go to the Google Play Store or the App Store and download the Tempo Plus 2 App. The best way to do this is to go to the various store and search for “Tempo Plus”. The required app will be the first one that appears and should have the following icon.



Ensure Bluetooth is turned on. This app also uses background scanning and your phone's location for the purposes of displaying downloads on a map.

The App should ask you to turn Bluetooth on if it is not already, but double check that your Bluetooth is actually on.

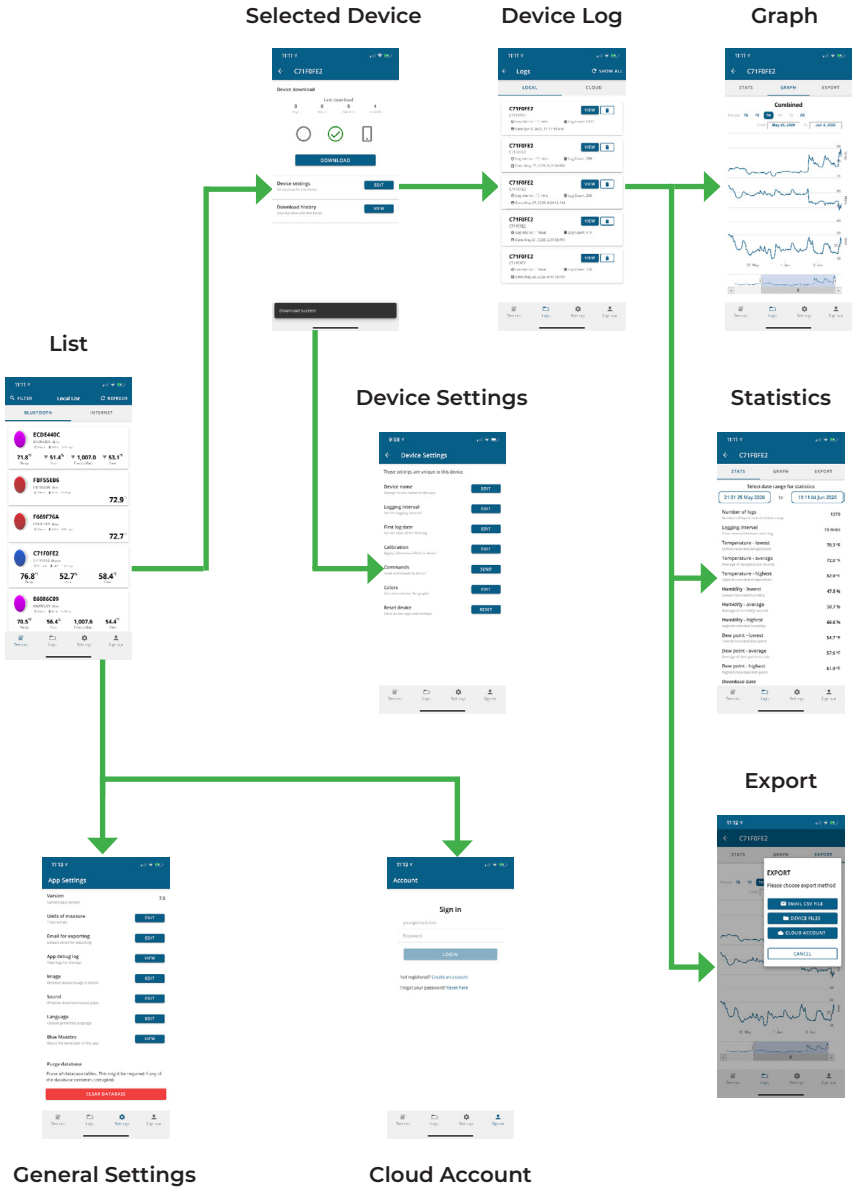
NOTE: The app may ask you for permissions in relation to Bluetooth, Location Services and Background tasks. Failure to grant the necessary permissions may result in the app not operating correctly and a loss in functionality.

Ensure your device is turned on

All Blue Maestro Tempo Disc Devices have an on/off function. For the Tempo Disc range of sensor beacons and data loggers this is the soft touch coloured surface on top of the device. Press this once to activate the device. Press and hold for approximately 5 seconds to turn the device off. The device will blink rapidly when it is successfully turned off.

For the Pebble range, the button can be found on the underside of the device. Again, press once for activation and press and hold to turn the device off.

APP LAYOUT



LIST

If you have many devices you can filter them using this 'Filter' function

Toggle between local devices and internet devices (note, requires Internet Gateway for internet devices)

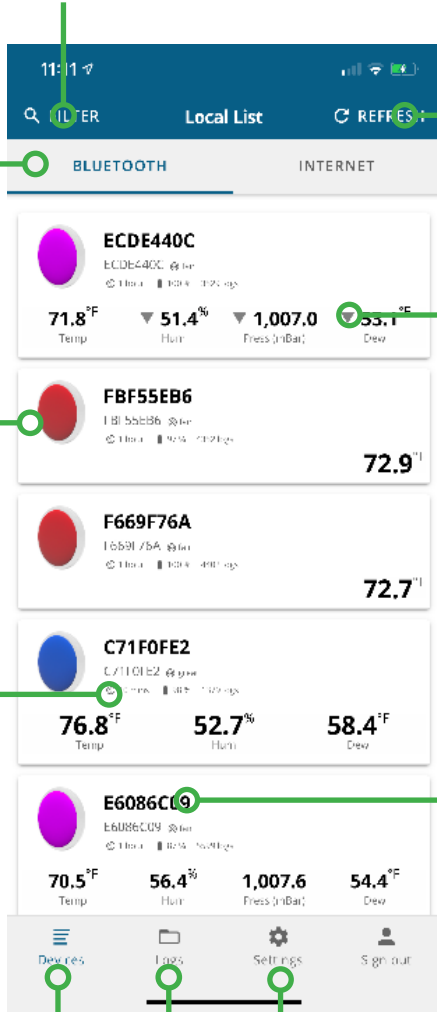
Refreshes list. Bluetooth scanning will stop after a period of time, refreshing will restart it. This is sometimes needed to start scanning when opening the app for the first time

Arrows indicate the direction and rate of change of the values

Image shows type of device. Purple includes barometric pressure, red is temperature only and blue is temperature, humidity and dew point

Key information of the sensor such as logging interval, battery level and log count

Chosen name for the device. As a default it starts off as the MAC ID of the device



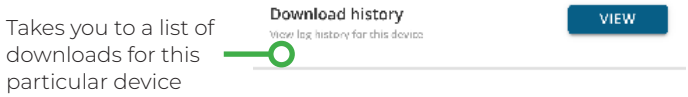
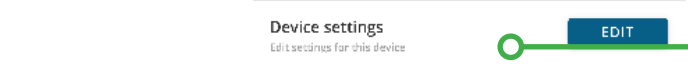
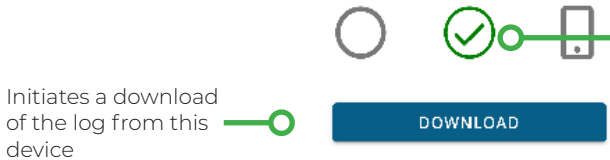
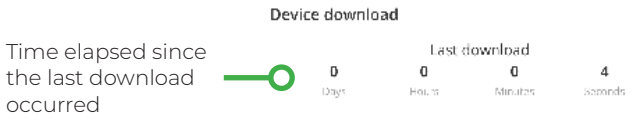
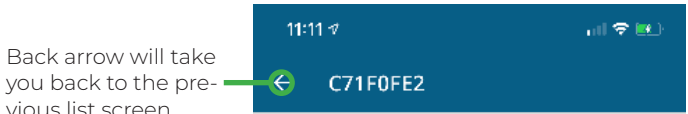
This List Screen can be found under the Devices tab

This will take you to the Logs Screen where all of the logs can be found

This will take you to the Settings Screen for app wide settings

SELECTED DEVICE

Selecting any of the devices on the List Screen (by pressing on any of them) will bring you to the Selected Device screen.



Message indicating whether a download was successful or not

DEVICE SETTINGS

Selecting 'Edit' for the Device Settings will bring you to the Device Settings Screen. This is settings for the particular device and is different from the Settings tab at the bottom of the screen that applies to the App as a whole.



These settings are unique to this device.

This sets the logging interval. When this is changed logging recommences

Device name
Change device name in this app

Logging interval
Set the logging interval

EDIT Changes the device name. NOTE do not use special characters such as += etc

EDIT

Applies an offset against the device's readings for calibration purposes

First log date
Set the time of the first log

Calibration
Apply calibration offset to device

EDIT Sets the first log date. When this is changed logging starts afresh

EDIT

Set color schemes for the graphs for this

Commands
Send commands to device

Colors
Set color scheme for graphs

Reset device
Clear device logs and settings

SEND Special commands can be issued to the Device. Advanced use only

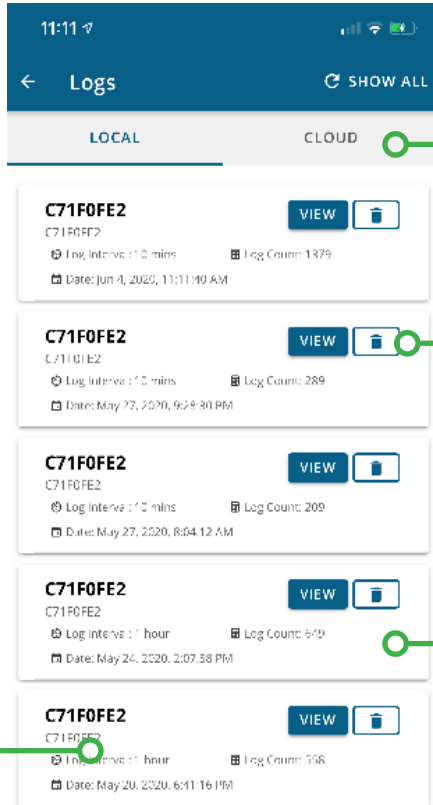
EDIT

RESET Resets the device to factory settings and logging starts afresh



DEVICE LOGS

Selecting 'View' for the Download History will show the logs for the device. Selecting 'Logs' tab will show all logs on the phone for all devices.

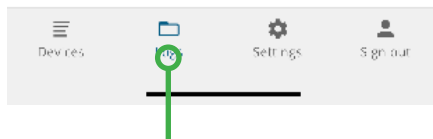


Toggle between logs stored on your device and logs stored in the cloud with your Cloud Account

Deletes the log

Selecting any of the logs will take you to get Graph Screen

Key information of the sensor such as the logging interval, log count and date the log was downloaded



The logs for all devices can be accessed using this tab

GRAPH

Selecting a particular log from the list will bring up the Graph for that log together with tabs for Statistics and Export.

Change the time span shown in the graph by selecting the period or entering a date range



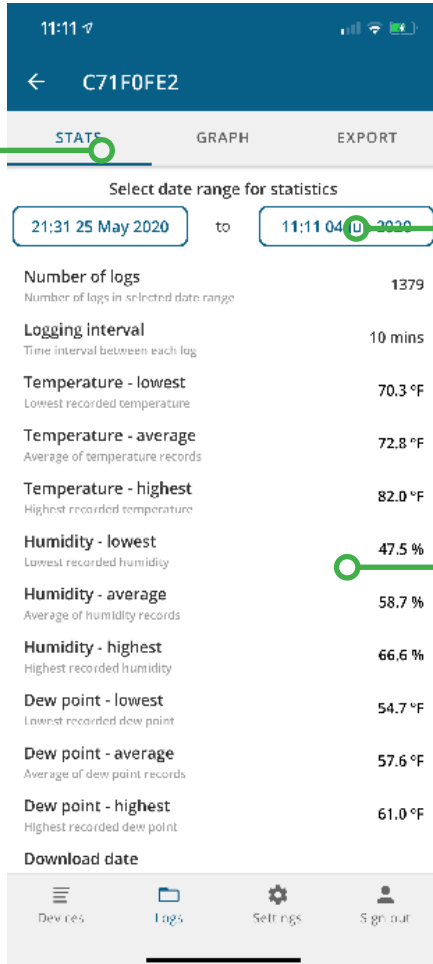
Graphs are interactive, scrollable and zoomable

See the period covered by the graph and also provides a convenient scroll method

STATISTICS

Selecting the Stats Tab at the top of the screen will take you to the Statistics Screen

Toggle between statistics, graph and export function

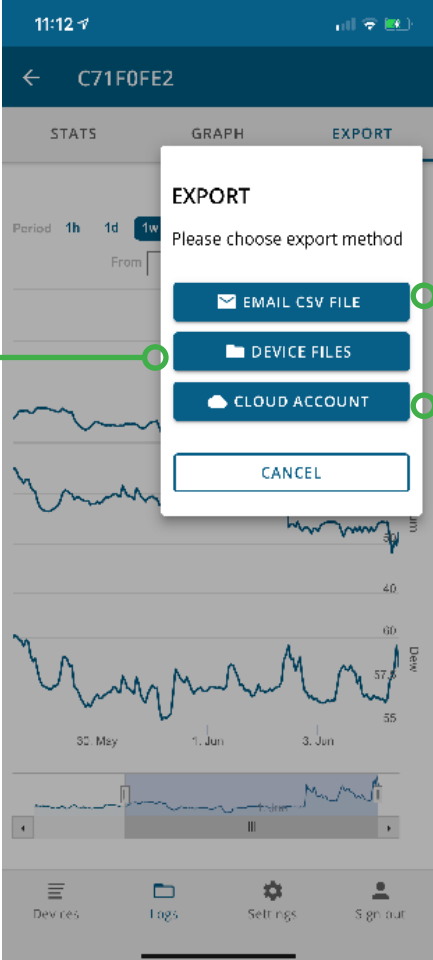


Select a date range for statistics

Key statistics for the log and the date range selected

EXPORT

Selecting the Export Tab at the top of the screen will take you to the Export Screen



The screenshot shows the Tempo Plus 2 app interface. At the top, the time is 11:12 and the device ID is C71F0FE2. The navigation bar has three tabs: STATS, GRAPH, and EXPORT. The EXPORT tab is selected. A modal dialog titled "EXPORT" is displayed in the center, asking the user to "Please choose export method". The dialog has four options: "EMAIL CSV FILE", "DEVICE FILES", "CLOUD ACCOUNT", and "CANCEL".

Save the file to your device where it can be accessed with your devices file system

Email the log as a CSV file

Upload the log to your Cloud account (need to be logged in)

GENERAL SETTINGS

Selecting the Settings Tab at the bottom of the screen will take you to the General Settings screen



Version
Current app version

7.5 Version of app

Change from C to F **Units of measure**
* Fahrenheit

EDIT

Input the email for exporting which saves having to enter it every time

Allows problems with the app to be logged and this log shared with Blue Maestro

Email for exporting
Default email for exporting

EDIT

App debug log
View logs for the app

VIEW

Image
Whether device image is shown

EDIT

Toggle the image of the device on the list screen

Toggles whether sound is played after a download **Sound**
Whether download sound plays

EDIT

Language
Choose preferred language

EDIT

Choose between one of eight languages

Information about Blue Maestro developer of the app **Blue Maestro**
About the developer of this app

VIEW

Purge database

Erase all database tables. This might be required if any of the database becomes corrupted.

CLEAR DATABASE

Deletes all of the logs for the devices



CLOUD ACCOUNT

Selecting the Sign-in tab at the bottom of the screen will take you to the Cloud Account sign in screen



Sign in

your@email.com

Password

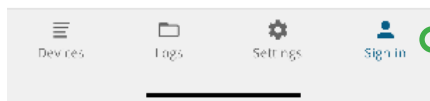
LOGIN

Enter your Cloud Account sign in details or sign up here

Functions to create a new account or reset your password if you have forgotten it

Not registered? [Create an account](#)

Forgot your password? [Reset here](#)



The sign-in screen can be accessed with this tab

Troubleshooting

This section is dedicated to common problems that a user may experience with the app.

I cannot see the Device in the app

Firstly check your version of iOS or Android (as applicable). The apps are only compatible with Android devices running Android 5.0 and above and iOS devices running iOS 9 and above.

Next, check you have Bluetooth on and have accepted Location Services if you were asked to on starting the app. If you refused Location Services when asked, the app may not work. If you cannot remember whether you accepted the request or not, its best to uninstall and then reinstall the app, and any permissions required will be asked again.

NOTE: Blue Maestro doesn't use Location Services, but Android/iOS often considers Bluetooth Low Energy devices to be in the same category as location beacons and so will require users to confirm Location Services even if the app does not strictly use it.

Next check your Device is in range and is switched on. There will be a button (such as the top colour surface of Tempo Disc or the bottom button on Pebble) that will activate the Device.

Finally turn your smartphone off and then on again. On certain makes and models Bluetooth can get a little unstable, especially if you have other Bluetooth devices connected. Restarting your smartphone often fixes this.

I can see the Device in the app but I cannot connect or download from it

This will likely be a permission issue which may arise where a permission was refused at the time the app was first opened. This is best dealt with by deleting and reinstalling the app and ensuring all permissions are answered 'yes'.

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