

FOURTEC

FourtecLite

User Guide



About

FourtecLite is an Android mobile application utility that helps you view previous sampling sessions' history, configure your devices, and monitor online sampling sessions.

The application currently supports the following devices :



MicroLite III
Temperature



MicroLite III
Temperature / RH



MicroLite III NTC



MicroLogPro III
With external probe



PicoLite

Before you begin

1. Download and install the FourtecLite application from the Google Play store.



2. Make sure you have a suitable USB cable (see step 2).
3. Make sure your device is on the list of supported devices on page 2.
4. Enable any permission asked from the application when started.
5. **DO NOT disconnect your device during in steps 1-5. These steps are critical to make a safe connection with your device.**

Step 1

Opening the application

Launch the FourtecLite application from your home screen



Step 2

Connecting your device using a USB cable

After launching the application from the home screen, connect the device using a USB cable that fits your Android device (figures 1 and 2). If a device isn't detected, you'll see the screen shown in Figure 3.



Figure 1. USB Type-C male to USB Type-A female adapter cable



Figure 2. Android male micro USB to USB A female.



Figure 3. The screen you'll see if a device is not detected.

Step 3

Granting required permissions

After connecting your device, a permission prompt will appear and you will be asked to allow the FourtecLite application access to the USB device.

Important:
Make sure to grant the required permission.

USB permission prompt

Recommended (optional)

Required: USB permission



Step 4

Device connection

After USB permission is granted, the application will try to connect with your device.

The text below will change to “Connecting to device, please wait”.

Connection status ←



Important:

DO NOT disconnect the device while connection is being established. Disconnecting the device will take you back to Step 2.

Step 5

Notification about successful connection

When the connection to your device has been made, an animation will pop up to notify you about the type of the detected device.

Figures 1 and 2.



Figure 1. MicroLog Pro III has been detected.

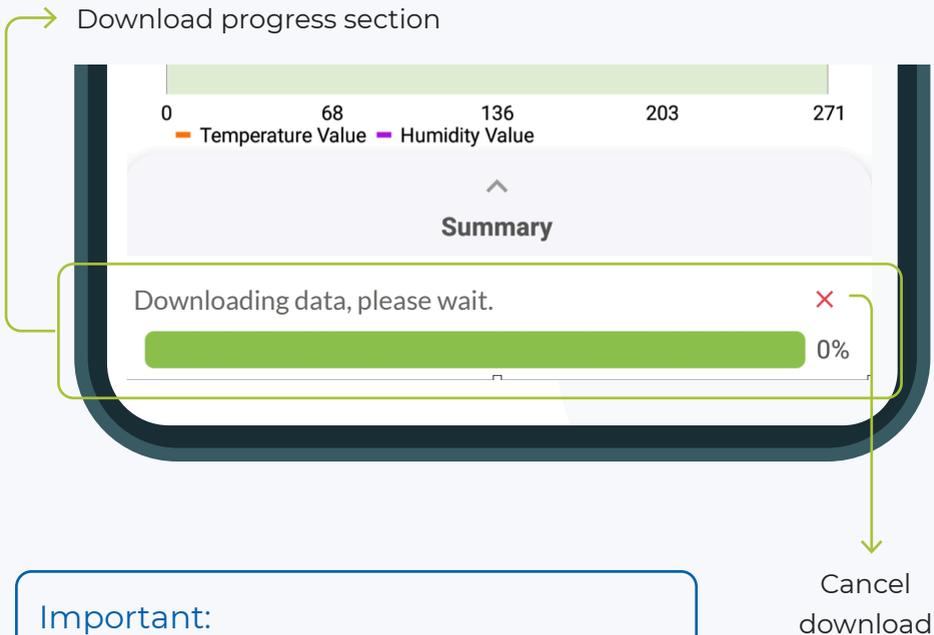


Figure 2. MicroLite III has been detected.

Step 6

Downloading previous “run” samples

Right after a connection has been made successfully, the logger will start downloading previous “run” samples. You can track the downloading progress (percentage %) down in the bottom of your screen as shown in the picture below. You also can cancel the download at any point you like.



Important:

When the logger is downloading previous “run” samples, some of the application features are not available. Please wait patiently until the download is complete to explore extra features inside the application.

Step 7

Menu and features

About the menu and viewing types the app provides.

Chart without alert lines

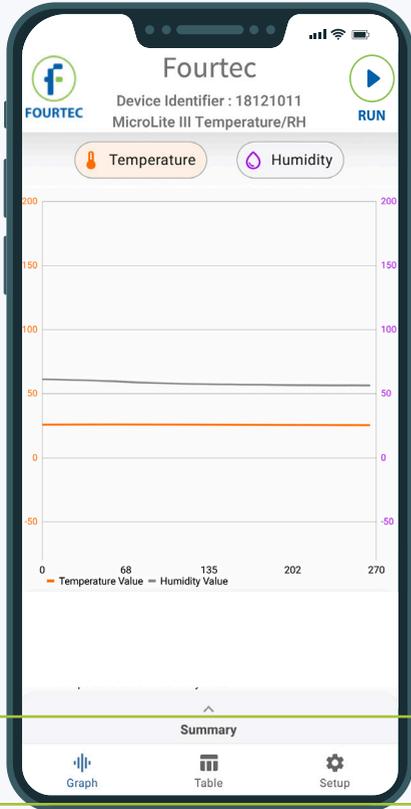
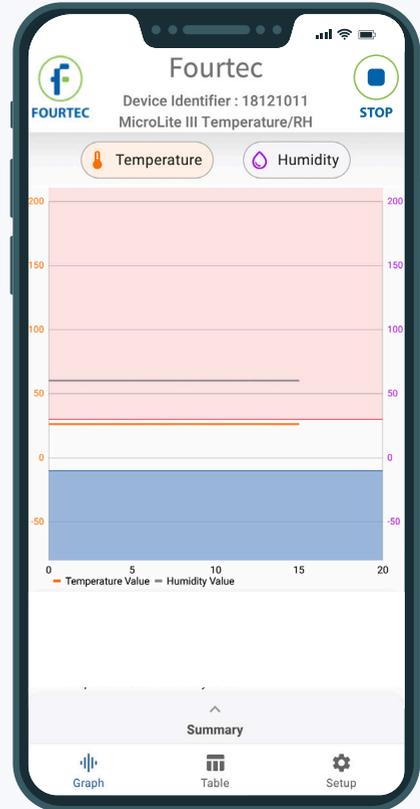


Chart with alert lines



When the download has finished or canceled, the bottom menu will pop up. The menu will include the following items:


Chart


Table


Setup

Step 8

Chart part 1

Viewing your samples in a chart

Chart without alert lines

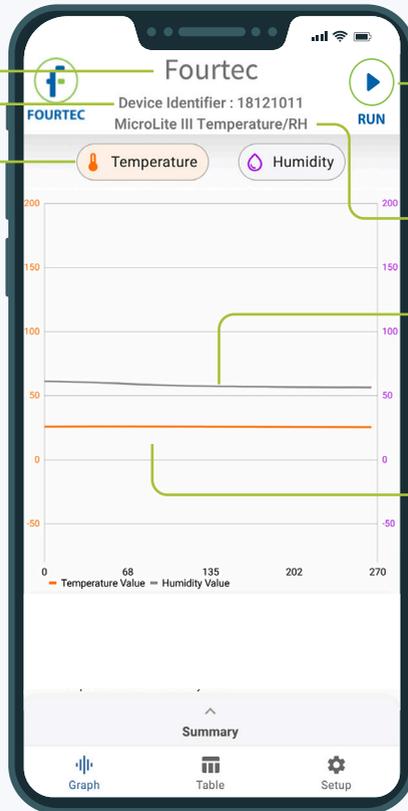
Your device comment

Your device serial number

Temperature samples will be marked in orange

Humidity samples will be marked in purple

When you highlight a unit, the other one will be marked in grey to emphasize the selected unit



The "RUN" button is displayed when the logger is in "Stop" mode.

Your device type

Humidity line data

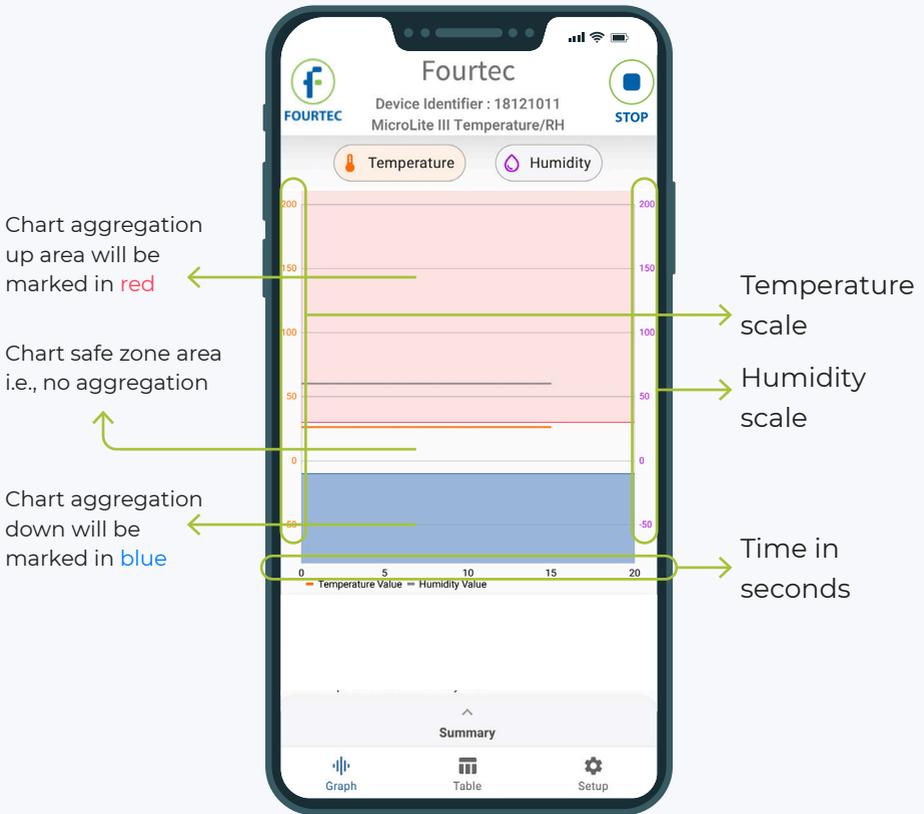
Temperature line data

Step 8

Chart part 1

Viewing your samples in a chart

Chart with alert lines



Step 9

Table

Viewing your samples in a table

Sample time Sample values Valid samples

Time	Temperature	Internal Hum.
12:26:47	29.92	74.29
12:26:48	29.84	73.29
12:26:49	29.76	72.28
12:26:50	29.69	71.28
12:26:51	29.68	71.28
12:26:52	29.68	71.28
12:26:53	29.68	70.27
12:26:54	29.66	71.28
12:26:55	29.62	70.27
12:26:56	29.57	70.27
12:26:57	29.55	70.27
12:26:58	29.56	70.27
12:26:59	29.52	70.27
12:27:00	29.63	70.27
12:27:03	29.54	70.27
12:26:59	29.52	70.27
12:27:00	29.63	70.27
12:27:01	29.54	70.27

Summary

Graph Table Setup

Table without aggregation

Sample date Valid sample Aggregating samples

Time	Temperature	Internal Hum.
June 14, 2021		
12:25:57	30.12	82.32
12:25:58	29.76	81.32
12:26:10	33.56	86.34
12:26:11	33.49	86.34
12:26:12	33.32	86.34
12:26:13	33.71	87.34
12:26:14	33.73	87.34
12:26:15	33.36	87.34
12:26:16	33.19	87.34
12:26:17	33	87.34
12:26:18	32.88	87.34
12:26:19	32.66	87.34
12:26:20	32.38	87.34
12:26:18	32.88	87.34
12:26:19	32.66	87.34
12:26:20	32.38	87.34

Summary

Graph Table Setup

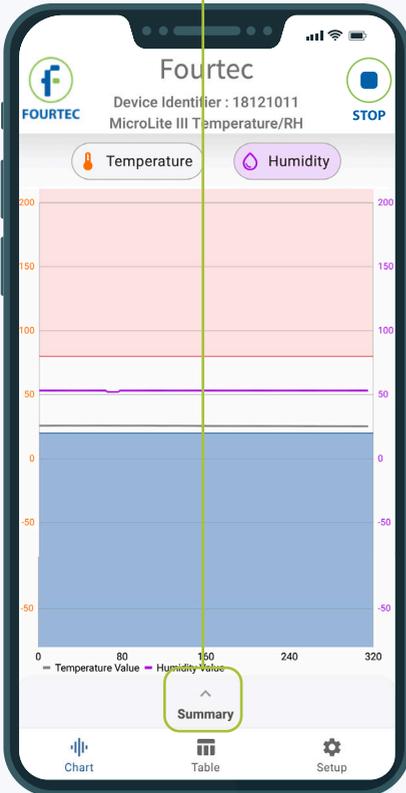
Table with aggregation

Step 10

Summary part 1

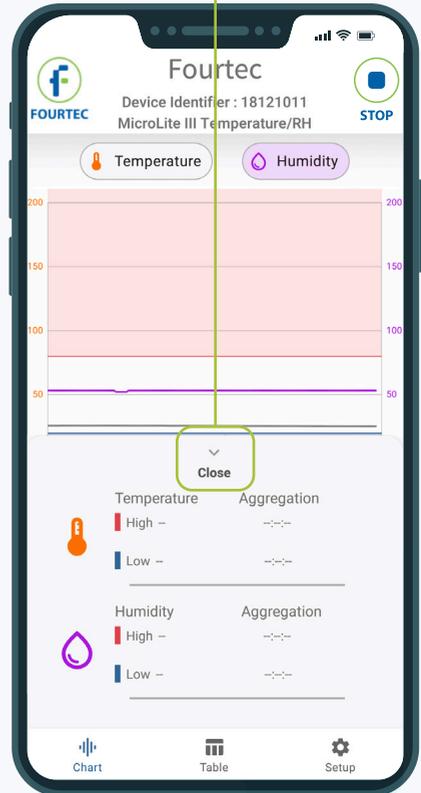
Opening the summary section

Open summary section



Summary section collapsed

Close summary section

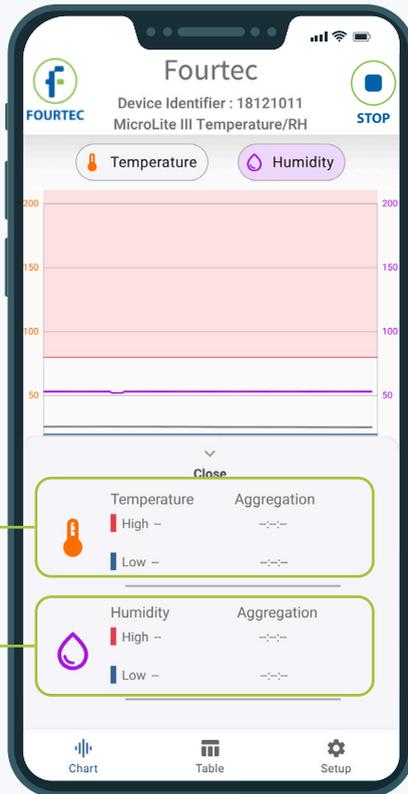


Summary section opened

Step 10

Summary part 2

Understanding the summary sub-sections



Temperature summary

Humidity summary

Summary section opened

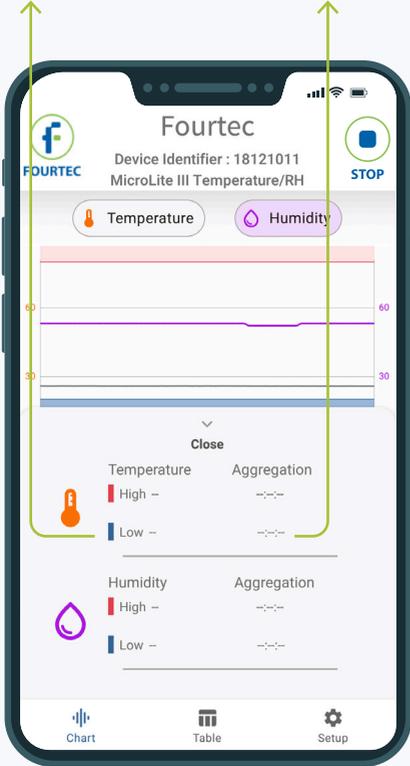
Viewing a summary of your samples

No sample value below alert range recorded

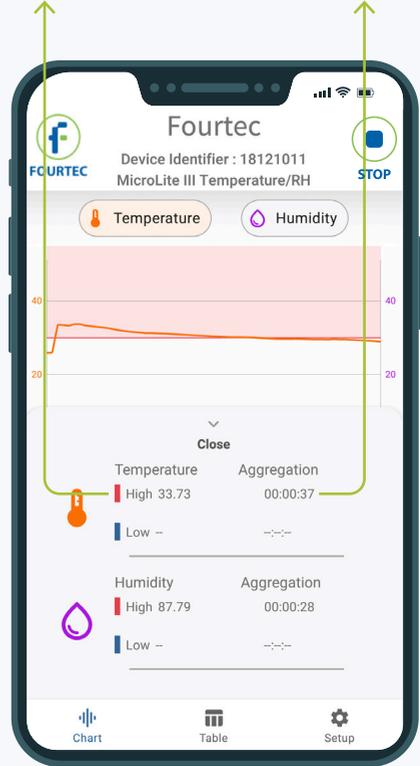
Didn't spent time below the alert range

Maximum sample value recorded so far

Total time spent above the alert range



Summary without aggregations



Summary with aggregations

Step 11

Setup part 1

Setting up your device identifiers and recording options by marking the checkboxes

The image shows a smartphone screen displaying the 'Fourtec' app setup interface. The screen is annotated with green arrows pointing to various fields and checkboxes, with corresponding labels on the left. A callout box at the bottom right highlights the 'Timer run' section, which includes a date and time selection interface.

Fourtec
Device Identifier: 18121011
MicroLite III Temperature/RH

Identifiers

Example: Joe Butchers shipment
Fourtec
Type digits and letters in English only 7/15

Device: MicroLite III Temperature/RH
Firmware: 4.0
Battery level: 0%

Temperature Scale

Celsius Fahrenheit

Options

Cyclic run
 Push to run
 Stop on key press
 Show min/max samples on LCD
 Only past 24 hours
 Timer run

Timer run

Timer run

Date: 14/6/2021 [edit]
Time: 17:23:51 [edit]

Future date
Future time
Select date button
Select time button

Annotations on the left:

- Device comment
- Device type
- Device firmware version
- Device battery level
- Device unit type
- Cyclic run
- Push to run
- Stop on key pressed
- Show min/max samples on the device's digital screen
- Timer run

Step 11

Setup part 2

Setting up your device sampling interval and averaging points

The screenshot shows the 'Setup' screen for a 'Fourtec' device. The device is identified as 'MicroLite III Temperature/RH' with a 'Device Identifier : 18121011'. The screen is divided into several sections:

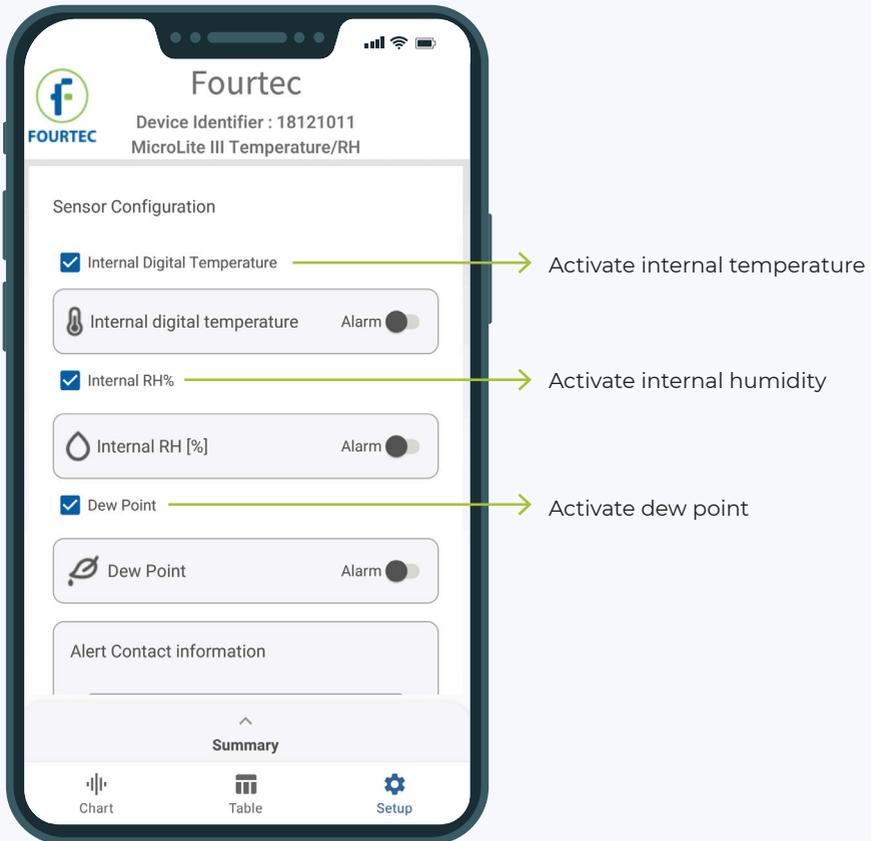
- Timer run:** A checkbox that is currently unchecked.
- Sampling Rate:** A section with the label 'Interval' and a text input field containing '00:00:01'. A green box highlights a pencil icon to the right of the input field, with an arrow pointing to the text 'Select sampling interval button'.
- Averaging Points:** A row of seven circular buttons numbered 1 through 7. Button 1 is selected and highlighted with a blue ring. A green box highlights this button, with an arrow pointing to the text 'Select sampling averaging points'.
- Recording time:** A text input field containing '11.02:40:00 [(Days) HH:MM:SS]'. A green box highlights this field, with an arrow pointing to the text 'Time that the logger can record in total, calculated by your sampling setup (interval, averaging points)'.

At the bottom of the screen, there is a 'Summary' button and a navigation bar with three icons: 'Chart', 'Table', and 'Setup'.

Step 11

Setup part 3

Setting up your device's activated sensors



Step 11

Setup part 4

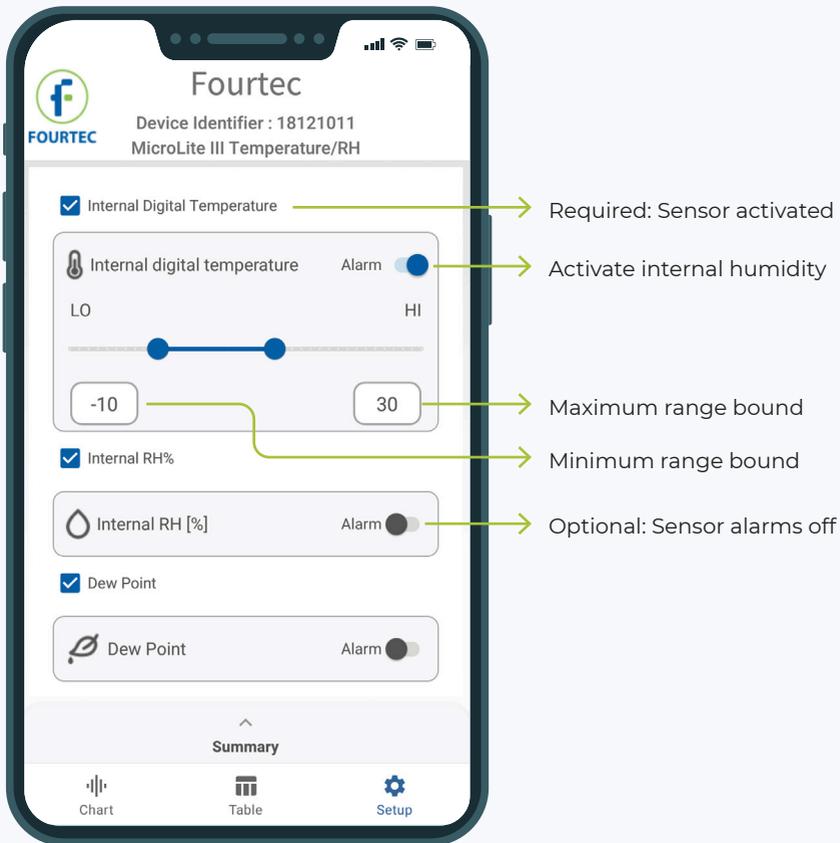
Setting up your device's sensors alarms

First, make sure to activate the sensor you want to set the alarm to.

Second, turned on the sensor alarm switch for that sensor.

For example :

This alarm setup will show alarms on internal digital temperature only.



Step 11

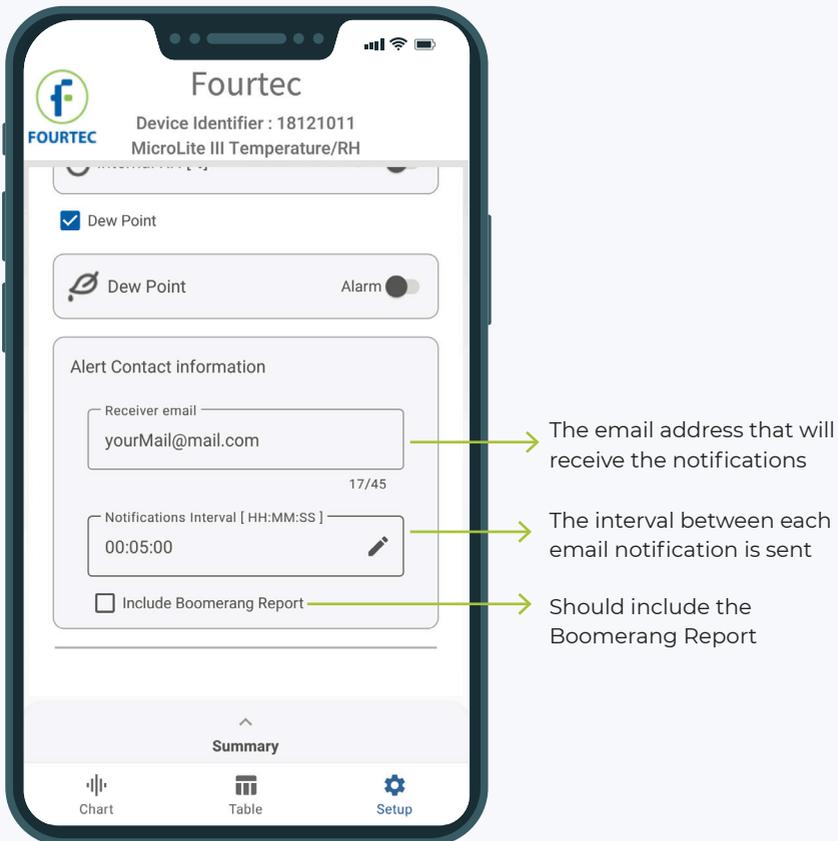
Setup part 5

The Boomerang report is an "Exceptions Report" that is sent automatically after the logger connected to the Android device and downloaded its aggregated data.

FourtecLite checks the data for "out of range" values (as defined in the "Sensors Configuration"), and adds the "exception samples" as lines in the report.

After that, if the logger is still connected, then it checks every new "online samples" and adds them (if out-of-range) to the report. It then sends a new report every "notification interval".

Note that this step is optional and can be left blank.



Step 11

Setup part 7 (Calibration)

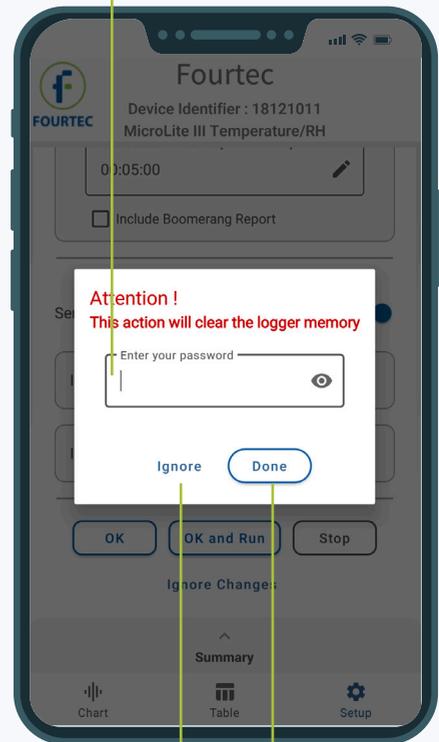
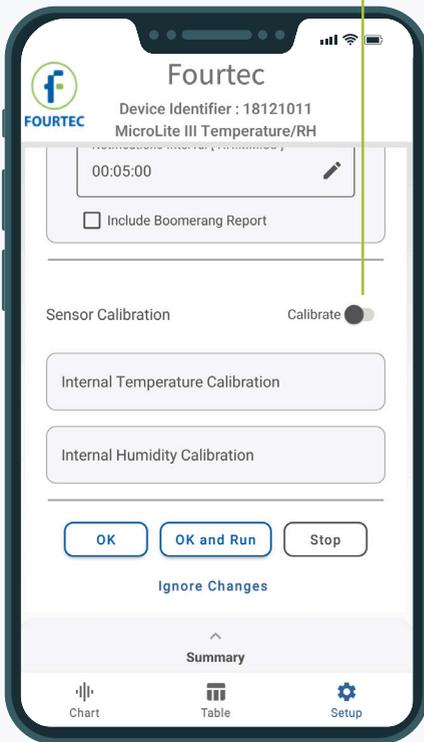
Calibrate your device and calibration authentication

Enable calibration functionality

Authenticate to start calibration

Enabling calibration functionality

Enter your password



Ignore calibration and go back to setup

Authenticate and start calibration

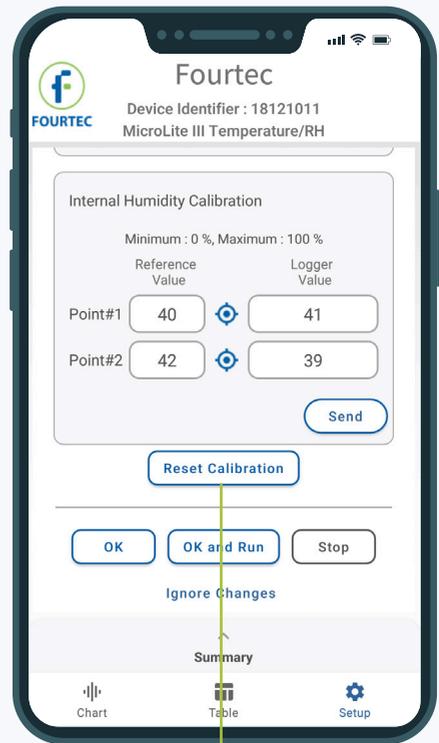
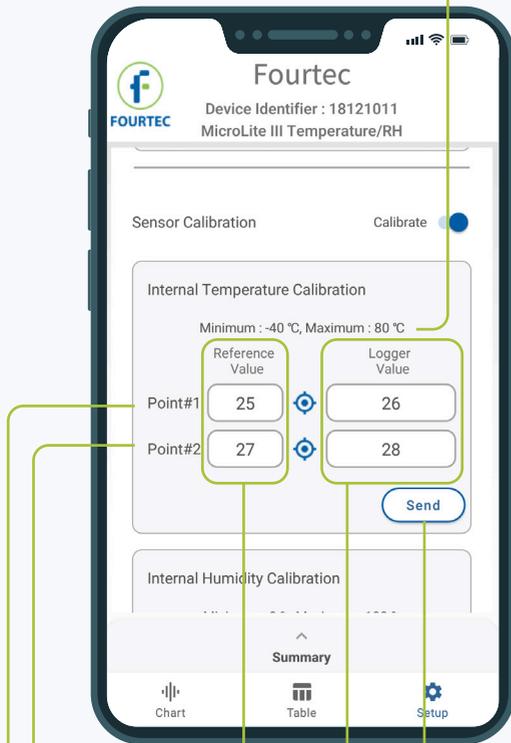
Step 11

Setup part 8 (Calibration)

Send calibration to your device

Please note that calibration is sent to the device only if the “Send” button is clicked

Minimum and maximum bounds



Point 1

Point 2

Reference values

Device values

Send the calibration to the device button

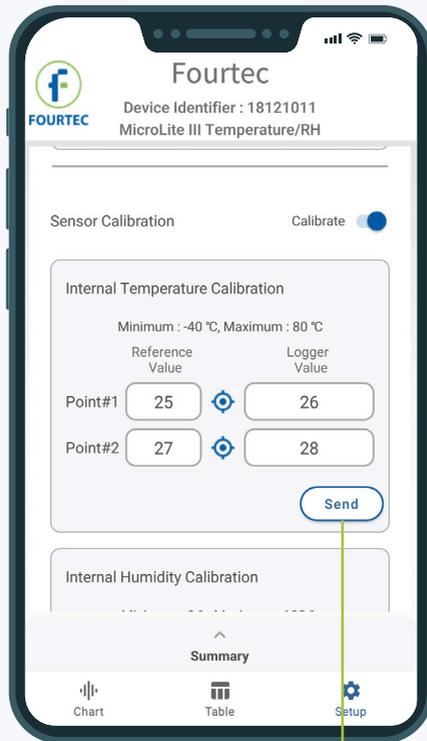
Reset the device calibration

Step 11

Setup part 9

Send the calibration to your device

This step is **required** to setup your device.



Send the calibration
to the device

Step 12

Data storage

Keep your data updated wherever you go



The "Data Suite for PC" technique to save the logger's aggregated data, is to connect the logger directly to the PC when the Data-Suite is running.

Fourtec-Lite (Android) offers another, more convenient method, for saving and transferring data.



The Android device will download each of the logger's data, and save it in its internal storage (as files) in your smart phone/tablet.



After you connected the Android device to a PC with a Data-Suite running - Open the **Tools** menu (in the a Data-Suite) and select **Import From Mobile**.

It will pull the files from the Android to the Data-Suite database.