

BluLite Calibration Instructions

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Required Equipment

- FourtecLite app Andriod application.
- DataSuite Desktop application.
- Calibration chamber.

Running BluLite in controlled environments (Chamber)

Connect BluLite to FourtecLite

- 1. Launch FourtecLite app with the android device.
- 2. Please press on the "SCAN" button.





3. Find the specific BluLite in the list and connect to it by pressing "Connect" button.



The BluLite is connected.



Reset Calibration

1. Click on the mechanical wheel icon ("Setup").



2. Setup logger: click on the "Calibrate" toggle and enter the password "1234" in order to reset the

Sensor Calibration	Calibrate
Internal Temperature Ca	alibration
Internal Humidity Calibr	ation
ОКО	K and Run

calibration.



Celsius	O Fahrenheit
Options	
Vcyclic run	
Interval	
[HH:MM:SS]	/
Recording time	
0 10:00:00 [(Day	ys) HH:MM:SS]

- 3. Set the logger parameters: Temperature scale °C and Interval of 1 minute, as shown below:
- 4. Please note, that the reset calibration process delete the previous calibration values.

action will clear	the logger me
Enter your pass	word C

5. Press "Ok and Run" button.

ок	OK and Run	
Ignore	Changes	
Su	mmary	
	~	
	OK Ignore Su	OK OK and Run Ignore Changes



Measuring with BluLite

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- 1. First point Set the chamber for 90 minutes with the first temperature value and place the running data logger into the chamber.
- 2. Second point Change the temperature settings of the chamber to second temperature value and resume logging data for another 60 minutes (wait until the chamber is stabilized).
- 3. Stop the measurement in the BluLite



Import data from FourtecLite

- 1. Connect the USB cable from your mobile to your PC (with data transfer mode).
- 2. Press on "Import From Mobile" on DataSuite software (as shown in the picture below) and wait few minutes until success message.



Reports Help				1	
w _ J≣ Sensors View →	Backup System File	🕾 Load Wallpaper 🛛 🖾 Display All Devices' Names	Import From Mobile	🕒 Export -	a Print Map View
/iew 🔒 Lock Map View	C Restore System Files	@ Reset Wallpaper		1	
Views	Backup	Wallpaper	Import	Export	Print
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Preparing Excel

Two Excel tables should be prepared.

One with the data from the reference device (chamber) and another one with the data downloaded from the logger .

a. To prepare the table with logged data go to File => Open menu of the DataSuite software.
You will get the window where you should set the Time Period and choose up to 14 data loggers (using Ctrl + Left click) according to their serial numbers (locate the units you imported from FourtecLite) as shown in a picture below and click OK.

From: Until:	03/02/2025 00:00:00 03/02/2025 23:59:59 *
oggers	
S/N	Comment
21041115	alon_test
9216091	Fourtec
16231161	BluLite31161
23341005	MicroLite L Ext



b. In the next window the Display rate 00:01:00 and Close sample settings to be chosen.

Home Settings Devices	Analysis and Reports Help				
⊖ Open Data 🐻 Save	🖓 Map View 🛛 🖓 Sensors View -	Backup System File	🖄 Load Wallpaper 🛛 Display All Devices' Names	Import From Mobile	Export - @ Print Map View
🖹 Save Project 🕞 Open Project	🗟 History View 🔒 Lock Map View	C Restore System Files	Preset Wallpaper		Export to Excel
File	Views	Backup	Wallpaper	Import	Export to CSV

- c. Export the data to Excel table through **Home => Export => Export to Excel** menu.
- d. The table in the Excel file (as shown in the picture below) will include sensor's serial numbers, sensor's type, time and the logged values comparing beetwenn the logger data to data measurements if the reference .

-	* 1	X V	Jx Comment		
4	A	В	G	Н	1
2	S/N		RIUL ito		DEE
3	Sensor		DIULICC		INLI .
339	06/06/2018	10:07:30 AM	24.57		24.8
340	06/06/2018	11:18:00 AM	23.2		23.74
341	06/06/2018	12:28:30 PM	23.23		23.29
342	06/06/2018	1:39:00 PM	24		23.52
343	06/06/2018	2:49:30 PM	22.67		23.37
344	06/06/2018	4:00:00 PM	22		22.79
345	06/06/2018	5:10:30 PM	21.83		22.7
346	06/06/2018	6:21:00 PM	21.67		23.96

- e. Calculate the average temperature value for each logger for the last 20 minutes (samples) before changing the temperature or stopping these should be the most accurate values; do the same for reference value.
- f. Repeat step e for each additional temperature point (minimum 2 points).
- g. Review the data in Map View at the DataSuite .



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Home Settings Devices	Analysis and Reports Help
🕞 Open Data 🛛 🐻 Save	🛐 Map View 🛛 🖟 Sensors View 👻
🗊 Save Project 🕞 Open Project	🗟 History View 🖓 Lock Map View
File	Views

Go to Calibration

6. Connect the logger through the Bluetooth, Click on the mechanical wheel icon ("Setup").=>

Minin	num : -20 °C, Ma	ximum : 60 °C
R	eference Value	Logger Value
Point#1	25 📀	25
Point#2	25 📀	25
		Send
Internal Hu	umidity Calibr	ation
Internal Hu Minir	umidity Calibr	ation imum : 100 %
Internal Hu Minii Re	umidity Calibr mum : 0 %, Max eference Value	ation imum : 100 % Logger Value
Internal Hu Minin Re Point#1	umidity Calibra mum : 0 %, Max eference Value 40	ation imum : 100 % Logger Value 40
Internal Hu Minin Re Point#1 Point#2	umidity Calibr mum : 0 %, Max eference Value 40 40 40	ation imum : 100 % Logger Value 40 40

Calibrate, the following screen will appear:



• Once you finished to put the correct values inside "Logger Value" press the "Send" button.



Enter values: **reference value** (the average for the chamber data) and **logger value** (the average for the logger's data) for points **#1** and **#2** as marked in yellow. The logger value should correspond to each logger according to its serial number. Press **Send Calibration** to finish.