

Little Environmental Observatory

Ateknea Solutions

User Guide V1.0



Product Specifications



• For more details go to http://citisense.ateknea.com



LED indications





Transmiting Data Waiting for pairing



- Battery LED:
 - Red: charging
 - Green: charged
 - Blinking: battery error, connect and disconnect from charger
- Measuring LED:
 - Yellow LED: measuring sensor gas concentrations, temperature and relative humidity
- Bluetooth LED:
 - Blinks every 10 seconds: waiting for Bluetooth pairing
 - Fast blinks: transmitting data



Working with the sensors and ExpoApp

- Charge the battery (until battery LED turns green) and do not use until the first charge is completed*. Use the USB cable and wall charger provided with the device in the box.
- Before first use, press the reset button with the provided tool.





Working with the sensors and ExpoApp

• Recommendations:

- Charge the LEOs every night (as you will do with your smartphone)
- Do not cover the air inlets when measuring
- If not used for longer periods press the Suspend button
- If stored for more than 48 hours (without suspending), fully charge the sensor (more than 2 hours) before first use. If suspended battery can last up to 1 week****.

• Do not:

- use the sensor platform under rain. They are water resistant, but mind the USB port.
- blow directly in to the gas sensors or put it directly on the source of pollution (e.g. car exhaust system). This can potentially damages the air sensor.



*Android App will be ready by April 2015)

**http://citisense.ateknea.com/aircitisensing/downloads

***maximum of 25.000 measures, approx. 36h @ 5s sampling rate

****if you are not sure, always charge the device if stored for more than 48 hours

Installing ExpoApp

- Go to Google Play on your device
- Or scan the QR code on the right
- Search for ExpoApp ExpoApp
- Install the App. This might take several seconds





Start ExpoApp

- Click on the Gear icon to setup your session
- You will be prompt a password. The password is 31415



Start ExpoApp





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- Select the CitiSense profile
- Then select "Sensor", a new screen will show up
- Press on "SCAN" and wait for few seconds until your device shows up (check number on device)
- Make sure you select the correct device



■ •	SELECT YOUR SENSOR	■ SELECT YOUR SENSOR	
EXPOsOMICS Default	DEVICES	DEVICES	
CitiSense Default	Device Name:	Device Name:	
10 <u>30</u>	98013	9801300	
Seconds:	Device Name:	Dovice Neme:	
<u>1</u> 5 10 15 30 60	9801255	Selected device	
Sensor Name: Select sensor	Device Name: 201	You are selected the device Is this your LEO desired device?	
		Cancel YES	
••			
SAVE	SCAN	SCAN	
			Ateknea

BUILDING INNOVATIVE SOLUTIONS TOGETHER

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- Slide to the next screen
- Setup a new user name or SubjetID
- Enable 3G if you want to use your network connection to upload data to the server*
- Press on SAVE and then START
- A new session will start. A start Icon will show up and the gear icon will disappear





Viewing my Data

- Press on the sensor icon
- Press on "Verify Data"
- You can view:
 - Current value of Air Pollution INdication (APIN)*
 - Last 2 hours of APIN
 - Last 2 hours of the Activity Index



Viewing my Data



Stop the Session

- Press STOP
- You will be prompt a password. The password is 31415
- The message "Closing Connection, Please wait" will show up
- Now you can close ExpoApp



Stop the Session

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expo	5		expo
/Арр	Cancel	ОК	/Арр
SUBJECT ID: Test300	SUBJECT	ID: Test300	SUBJECT ID: Test300
Current session started on: 03/31/2016 / 08:40:36	1 2	3 -	Last session started at: 03/31/2016 / 08:40:36
	4 5	6,	
	7 8	9 💌	
STOP	. 0	_ 🗧	Closing connection, Please wait
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Troubleshooting

What do I do if something goes wrong?



Monitoring ExpoApp



- You can monitor ExpoApp to check if the communication with the sensor is good.
- Press on the sensor icon to see information about the sensor



Monitoring ExpoApp



- Last Message
 - This value is updated when the smartphone receives new data from the device. New data should be sent every minute.
- Possible errors:
 - More than one minute of difference with timestamp and current time
 - Solution: Reset the device and wait for a new pairing request (no more than 2 minutes). If it does no work, kill the App and start a new session.
 - Value is "error"
 - Solution: reset the device, stop the session and start a new one.
 If it does no work, kill the App and start a new session.



Monitoring ExpoApp



- Last Upload
 - This value is updated when the smartphone sends new data to the cloud. The new data is sent every minute if a valid data connection is available (3G or Wi-Fi, depending on your settings)
- Possible errors:
 - More than one minute of difference with timestamp and current time
 - Solution: Check connection with the server. Press on "Verify Data" if the page is load correctly server is OK. Wait a couple of minutes for new data to be uploaded.
 - Value is "error"
 - Solution: disable/enable your Wi-Fi connection. New data will be push when a valid connection is available.
- If nothing else works STOP the session. Kill the App* and start ExpoApp Again



Stock on Closing Connection, Please wait..



- Close the app as you normally would
- If that does not work, then "Kill the App"



Kill ExpoApp

- Go to your settings -> Apps
- Search for ExpoApp
- Press "Force Stop" then "OK"
- Press "Clean Cache*" then "OK"
- Reset the sensor device
- You can start ExpoApp again and start a new session



* DO NOT CLEAN CACHE if you don't want to lose the last recorded data.

Kill ExpoApp



Kill ExpoApp

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← App info	م		
ExpoApp Version 0.8.2			
FORCE STOP	UNINSTALL		
Show notifications			
STORAGE			
Total	21.02MB		
Арр	20.73MB		
External app	0.00B		
Data	292KB		
External data	0.00B		
MOVE TO SD CARD	CLEAR DATA		
CACHE			
Cache	32.00KB		
	CLEAR CACHE		



