LEO Lora Quick Start Guide

IEQ Monitoring and Diagnostics

Version 5.1



Indoor Environmental Quality

File Setup Help			
COM Setup	ation Setup 🥐		
Measure Debug Message DataLog			
Temperature	·c	Temperature	۰F
Humidity	%RH	НСНО	ppb
CO2	ppm	NO2	ppb
со	ppm	O3	ppb
TVOC	µg/m3	NH3	ppb
PM10	µg/m3	Light	Lux
PM2.5	µg/m3	Sound	dBA
PM1.0	µg/m3	Motion	
C LEO Reset	LoRa STS		📶 Data
Status: No Connection	IP	signal strength	F/W Version

01 When you unzip Sensor.zip¹⁾ file, there are lib folder and Sensor.exe for PC, (Atlasen.jar for Mac) inside.

02 This program is written in Java8.0 and JavaFX8.0, hence operates only when Java8 or higher version is installed in PC.

If you use Java10, JavaFX is not installed.

You should install JavaFX SDK additionally.

03 When you double-click Sensor.exe for PC (Atlasen.jar for Mac), following screen will show up.

1) You can download here at http://www.atlasenleo.com/en/support.html Atlasenleo - support – Sensor Software



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There are three categories of menu: File, Setup, Help.

Connect mini-USB cable to PC and open LEO.

Then, click "COM Setup" button, and you will see the following screen (on the next page).



S COM Port Setup	\times
Port COM7 Port Open	
Select COM Port and Port Open Btn Press	
Board Not Found	
-> Close	

06 Check "COM Port" of the connected USB Port and select Port (usually the last number). Then, click "Port Open"

🗴 COM Port	Setup	\times
Port	COM7 Port Close COM Port open succes	
	Check 9 Board Not Found	
	10 Close	

08 "COM Port open success" message will show up.

09 Click "Check" button and make sure LEO is connected.

If LEO is connected, you'll see "Board Connection OK".

The Circular orange image will turn on and off at the bottom of the main screen.

10 When it is checked, click Close and then click Setup.



🧬 Setup					×
LoRa Setup	Wi- Fi Setup	Sensor Order Check	DataLog	Date &Time Set	
	2_				
DEV_	EUI	ad Only			
APP_E					
APP_I	KEY 3				
Trans	mission Interv	4 ral <u>900</u>	sec	Band Select AS923	•
•	Kead	6 5 wr	ite	Clear	
		LoRa Set	up Scre	en	

01 First, when you click "Read", the data saved at LEO will show up.

02 Register the sensor at the LoRa server using DEV_EUI.

03 Enter the APP_EUI and APP_KEY.

04 Fill in "Transmission Interval". For example, 900 sec (configurable).

05 Choose your Band Select.

06 When setup is finished, click "Write" in order to save at LEO.

07 In order to check whether data is saved or not, click "Clear" to delete setup and click "Read" to bring and read data saved at LEO.



🧬 Setup					×
LoRa Setup Wi- Fi Setup	Sensor Order Check	DataLog	Date &Time Set		
Tempe	rature				
Humid	ity		НСНО		
CO2			NO2		
СО			03		
TVOC			NH3		
DUST1	0		Light		
DUST2	.5		Noise		
DUST1	.0		Motion		
Wifi			🗸 LoRa WAN		
(Read	🗲 Write		Clear	

Sensor Order Check screen

- Since different devices have different sensor options, you must select which sensor to use.
- Please select LoRa WAN. •



🧬 Setup			×
LoRa Setup Wi- Fi Setup	Sensor Order Check	DataLog Date &Time S	et
Tempe	rature		
Humidi	ty	НСНО	
CO2		NO2	
СО		03	
TVOC		NH3	
DUST	0	Light	
DUST2	.5	Noise	
DUST	.0	Motion	
U Wifi	Read 2	UoRa WAN	🔶 Clear

01 When you click "Read", data set at LEO will show up.

02 Set up based on the use of a device and click "Write" to save the setting at LEO.

03 In order to check whether data is saved or not, click "Clear" to delete setup and click Read to bring and read data saved at LEO.



stlasen LEO sensorMonitor				· 🗆 🗙	
COM Setup	tion Setup 🥐				
Sure Debug Message DataLog					
		Data Save			
Temperature	°C			9	
Humidity	%RH	저장파들	일명 DataLog.csv		
CO2	ppm	저장간국	역 10	ž	
со	ppm		🗸 Auto Start	3	
ТVОС	µg/m3				•
PM10	µg/m3		시장후던기	취소	J
PM2.5	µg/m3	Sound	dBA	5	
PM1.0	µg/m3	Motion			
C LEO Reset	LoRa STS	1	Tata Data		

01 When you click "Data", data save setting screen will show up.

02 Enter a file name to store LEO data.

03 Enter an interval to store LEO data.

04 Click the button in order to save data save settings.

05 Click the button in order to cancel and exit data save settings.

06 When setup is finished, a csv file will be created in the path where sensor.exe file is located. You can check the LEO data stored in the file.

※ Do not disconnect mini-USB cable(PC to LEO) while collecting LEO data.



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COM Setup	tion Setup			
sure Debug Message DataLog				
Temperature	°C	Temperature	۰F	
Humidity	%RH	НСНО	ppb	
CO2	ppm	NO2	ppb	
со	ppm	03	ppb	
TVOC	µg/m3	NH3	ppb	
PM10	µg/m3	Light	Lux	
PM2.5	μg/m3	Sound	dBA	
PM1.0	μg/m3	Motion		
C LEO Reset	LoRa STS		Data	

- When all the setup is done, reboot LEO to apply changes.
- If you turn LEO off and on again, or click "LEO Reset" button in main screen, LEO will be initialized and restart.







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