

STEP

5



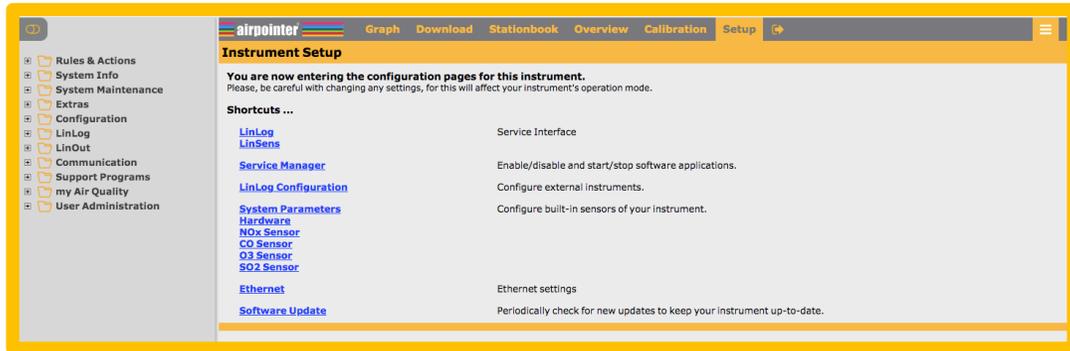
USER INTERFACE





STEP 5 – USER INTERFACE

The User Interface of your airpointer is completely implemented in the software and all you need is a web browser! In terms of networking, the airpointer can be regarded as a server providing special services by its various connectors.



The connection with airpointer ;

- ✓ can be established directly with a cross patch cable,
- ✓ can be established as member of a local network,
- ✓ or can be established over an Internet connection.

BEFORE STARTING

Supported web browsers are listed below:

For Microsoft Windows™

- Internet Explorer (version 11 or above)
- Mozilla Firefox (version 52 or above)
- Google Chrome (version 57 or above)

For Linux

- Mozilla Firefox (version 11 or above)

For Mac OS

- Mozilla Firefox (version 11 or above)
- Safari (version 9 or above)

! Java Script must be activated on your web browser.

! It might also be possible to use other browsers like e.g. Opera

! Older versions of the mentioned browsers might work as well, but these may not display the website 100% correctly.

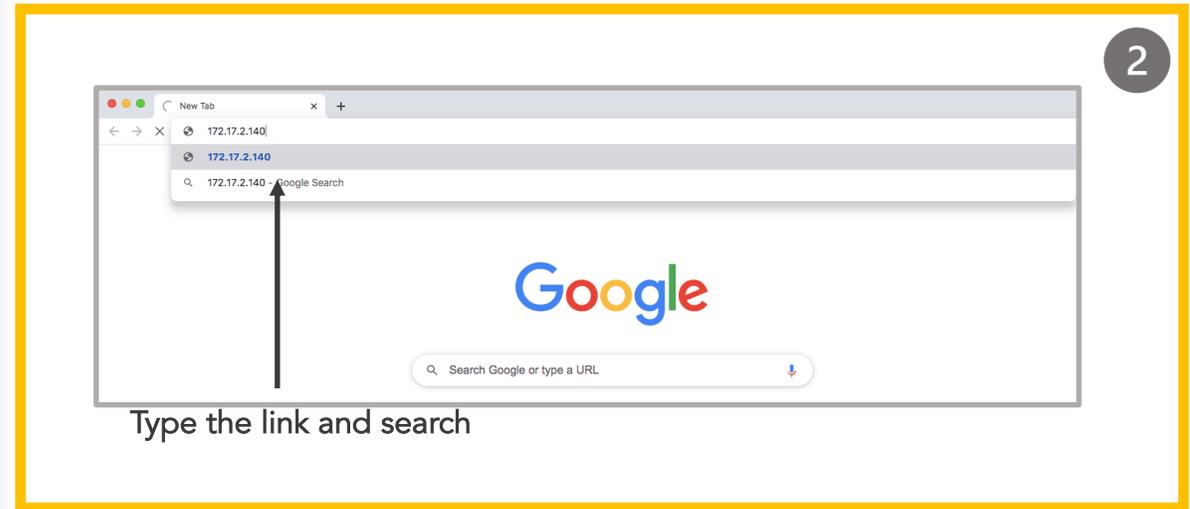


STEP 5 – USER INTERFACE

1 Make sure the airpointer is up for at least 3 minutes to have the internal computer running. Connect your Laptop with the delivered cross patch cable with the LAN connector in the maintenance door and power it up.

2 The Laptop will now receive an IP address from the airpointer. Open a browser and type in the address/URL bar:

172.17.2.140





STEP 5 – USER INTERFACE

3 For login to the 'user interface' you have a preconfigured username and password, which is:

User: admin Password: 1AQuality

IMPORTANT

! The login data are transmitted encoded to guarantee a save data handling. Now it is up to you to have your data safe.

! All airpointer users know this password and can connect to your airpointer and play around your instrument and its data. For safety reasons change the password for admin **IMMEDIATELY!!!**

How to change the admin password is explained in the next steps.

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mlu-recordum airpointer®

Login to Station Garden Airpointer

User

Password

[Distributor Homepage](#) | [Homepage](#)

Product Details

Software Version	2.4.106.a
LinSens	2.282c 26.Jan 2021
Analytical Module	1.001 22.Apr 2008
LinLog	2.264 20.Jan 2021

Installed Sensors

- AQI Index
- Clima FCAC
- CO
- LinSched
- MultiGas_1
- MultiPM
- NOx
- O3
- SO2
- System
- WS600-UMB

Serial Number

2020-00723

Eth0 172.19.11.71

Current Time 11:46:07 (Feb, 14th 2021)

Username and Password



STEP 5 – USER INTERFACE

4 Change the password after the log-in. Click on ,Setup' and then go to the menu sign that is on the right up corner of the page. Click on 'User Administration' and then 'Personal Settings'. Change the password by typing your preferred password.

! Guidelines for the password are important. Please follow them when choosing a new password.

5 After changing the password , log out and relogin to activate the new password.

5

6. Relogin

4

1.Setup

2.Menu

3.User Administration

4.Personal Settings

5.Change Password

! Guideline for the password

Guideline:
 Characters: lowercase, uppercase
 Special: !@#\$%^&*()_+{};:~
 Digits: at least one
 Size: between 6 and 30



STEP 5 – USER INTERFACE

Connecting your laptop with the airpointer via the Recordum portal:

NOTE: This is available only after the you have configured the modem and/or the system LAN setup!

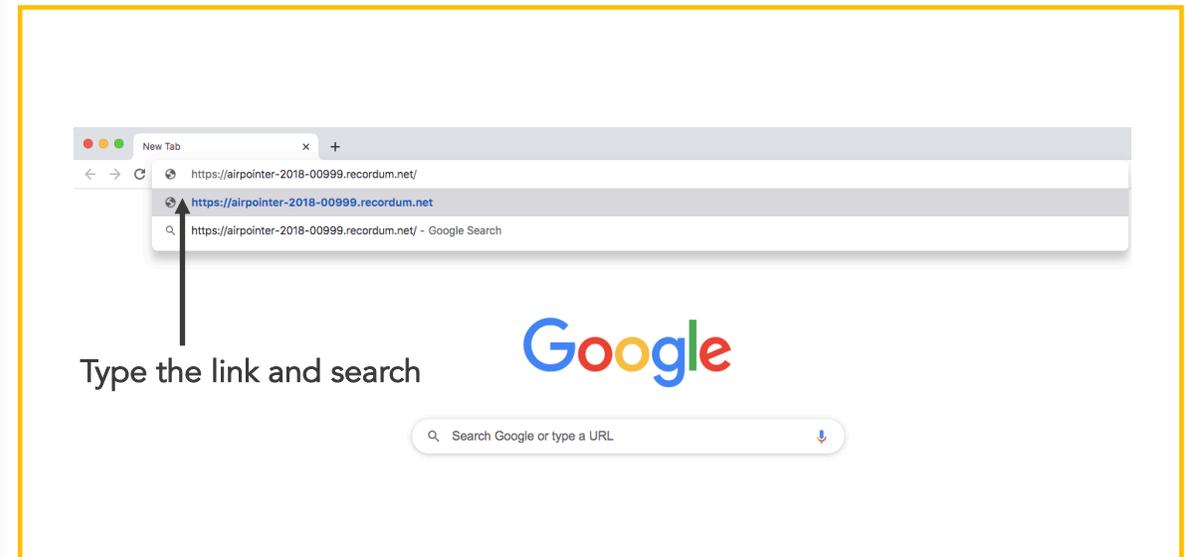
Write the link below on your web browser and search.
The link for the airpointer user interface is the following:

<https://airpointer-YYYY-00123.recordum.net/>

The first 4 digits show the year the airpointer was produced, and the following 5 are the serial number of your airpointer. For example for an airpointer that was produced in 2018 with the serial number '999', the link should look like;

<https://airpointer-2018-00999.recordum.net/>

! Make sure that you can log in as an administrator at your laptop and at the airpointer.



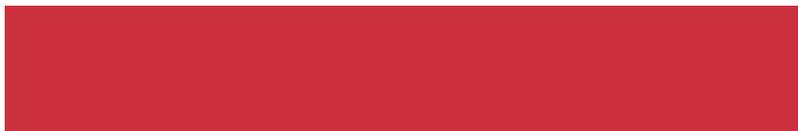


STEP 5 – USER INTERFACE

6 After the relogin to the interface, see the red error message that is on the top of the page. In the User Interface, deviations of the measurement values outside the chosen warning and failure limits are shown. Do not click on the error message at this point.

! The fail or warn sign is shown as red FAIL and orange WARN, respectively, overhead in the User Interface. (If you click the sign you will get to the LinSens Service Interface with further details (LinSens is later explained) . Failure messages are written in red and warn messages in orange.)

Message Colour Meanings:



FAILURE



WARNING

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airpointer Graph Download Stationbook Overview Calibration Setup

Personal Settings

Ok, changes successfully saved; You need to relogin to activate changes

General Settings

Language English

Default module for startup Setup

Layout Default

Set New Password

Change password now?

Old password

New password

Retype password

Save

There are errors! Click me to check the state.

Error Message in Red



STEP 5 – USER INTERFACE

7 Wait until all warn and fail signs cease in the interface. This might require 15 to 30 minutes depending on the configuration. Then the green LED in the maintenance door lights and the airpointer is ready for operation.

8 Check the measured values on the interface, whether they are plausible (especially the temperature). All values should be within the chosen limits.

Green LED: Status OK



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8 ! The value -9999,0 is equivalent to a non-existing or inoperative value, analogue to MS Excel.



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You can read this part before or after the first operation of your airpointer and later explore the user interface. More information on the User Interface can be found on the <https://www.airpointer.tech/manuals/> or www.airpointer.tech.

In the User Interface you will find the modules below;

Graph: It enables the presentation of measurement signals

Download: In the module Download selected measurement data can be downloaded in chosen time frame. The download configuration can be saved locally.

Stationbook : This module provides a notepad for you.

Overview: This module is designed to give a quick summary of selected parameters. You can see your device's measurement data at a glance.

GET FAMILIAR - USER INTERFACE

Calibration: The module 'Calibration' provides you with the items "'Valve Control'" and "'Calibration'". With "'Valve Control'" the valves of the internal zero measurement and the internal span control (optional) can be controlled. In the menu "'Calibration'" the setpoints for the calibration can be set and the calibration can be tracked.

Setup: The module 'Setup' provides system information, configuration of sensors, system and interfaces of the airpointer. Furthermore, user management of the User Interface to the airpointer is available here.

Menu: Menu for each module can be found on the right top side of the page and it is shown with 3 lines.

Log Out: Click this tab to leave the User Interface of airpointer



STEP 5 – USER INTERFACE

Two important sub-sections on the User Interface are LinSens and LinLog. Let's get to know these two sections before moving forward.

1 We reach these two sub-sections from 'Setup'. LinLog Service Interface provides current data of airpointer's logger. Clicking the link displays the LinLog Service Interface in a new window. (You can also reach the site, if you write your airpointer's IP-address/linlog into your browser's address bar.) What you will find in LinLog's sub-sections:

- Home** : This is the homepage with reference to the manufacturer.
- Raw Values** : Read in current values, arranged in groups.
- Actual Values**: Computed current values, arranged in groups.
- Calibration**: Choose group of calibration values
- Average 1**: Averaging of the computed current values for average 1, arranged in groups.
- Average 2**
- Average 3**
- Software**: This page shows you some software parameters like software version number.
- RS232**: Here you can check the communication via the COM ports.

GET FAMILIAR - USER INTERFACE LINSSENS AND LINLOG

The screenshot shows the 'airpointer' web interface. The top navigation bar includes 'Graph', 'Download', 'Stationbook', 'Overview', 'Calibration', and 'Setup'. The 'Setup' menu is expanded, showing options like 'LinLog', 'LinSens', 'Service Manager', 'Linlog Configuration', 'System Parameters', 'Hardware', 'NO₂ sensor', 'CO₂ sensor', 'O₃ sensor', 'SO₂ sensor', 'Ethernet', and 'Software Update'. Below the screenshot, two arrows point to the 'LinLog' and 'LinSens' links, with labels '2.LinSens and LinLog' and '1.Setup' respectively. A second screenshot shows the 'LinLog Service Interface' page with a navigation bar containing 'Home', 'Raw values', 'Actual', 'Calibration', 'Average.1', 'Average.2', 'Average.3', 'Software', 'RS232', and 'USB List'. An arrow points to this navigation bar with the label 'Sub-sections in LinLog'. Below this second screenshot is the label 'LinLog'.



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- The LinSens Sensor Service Interface provides current sensors data of the airpointer. Clicking one of these links will open the LinSens Sensor Service Interface in a new window. The first line shows the operation mode of the airpointer. Normal operation in black letters means everything is functioning well. Normal operation in red letters additionally displays the values considered to be faulty.
- Let's choose sensor NOx here (you can see all the sensors and also the system values in the same way). You will see the current data of the sensor module NOx. Colour codes in LinSens will inform you about the warnings, values that exceed the limit or maintenance warnings. If all the values are normal and there is no warning/error then you will see these data in green. Here are the meanings of the colours and examples:

	OK
	WARNING
	MAINTENANCE
	ERROR

GET FAMILIAR - USER INTERFACE LINSSENS AND LINLOG

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LinSens Service Interface [Garden Airpointer],

[Home](#) [Actual](#) [Average](#) [Calibration](#) [NOx](#) [CO](#) [O3](#) [SO2](#) [MultiPM](#) [MultiGas](#) [1](#) [System](#) [Values](#) [Status](#) [StatList](#) [Software](#) [Hardware](#) [RS232](#)

Start Page

Welcome to the start page of the sensing part of your device. This page gives the operator the opportunity to check raw and actual values, automatically updated every some seconds
If you are accidentally on this page, be aware that the values displayed here are not final values, they can be easily interpreted in a wrong way!

Software Version: 2.282c 26.Jan.2022

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Sub-sections in LinSens

LinSens 1. NOx

LinSens Service Interface [Garden Airpointer], -> please check, you have warnings (1)

[Home](#) [Actual](#) [Average](#) [Calibration](#) [NOx](#) [CO](#) [O3](#) [SO2](#) [MultiPM](#) [MultiGas](#) [1](#) [System](#) [Values](#) [Status](#) [StatList](#) [Software](#) [Hardware](#) [RS232](#)

WARNINGS

NO	NO2	NOx	16.7 ppb	16.9 ppb	33.6 ppb
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Note: "9999" is displayed for a missing value.

OK
MAINTENANCE

This document is generated by linsens, the sensor part of the r05y system. Copyright by www.mlu-recordum.com 20210215 10:15:12

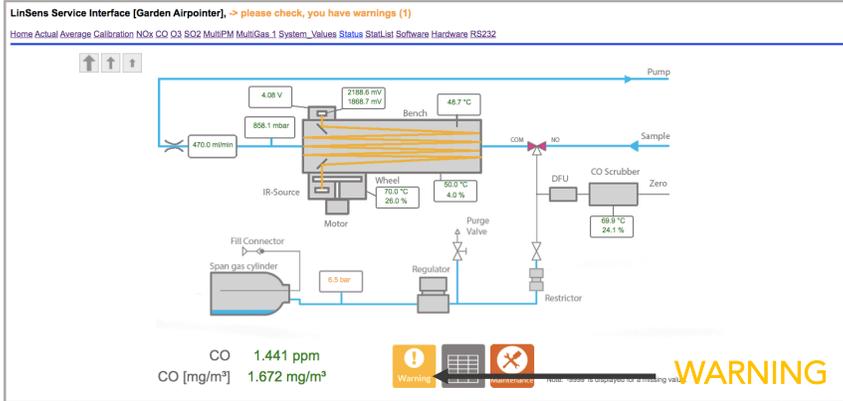
NOx data in green, OK
It's in the limits



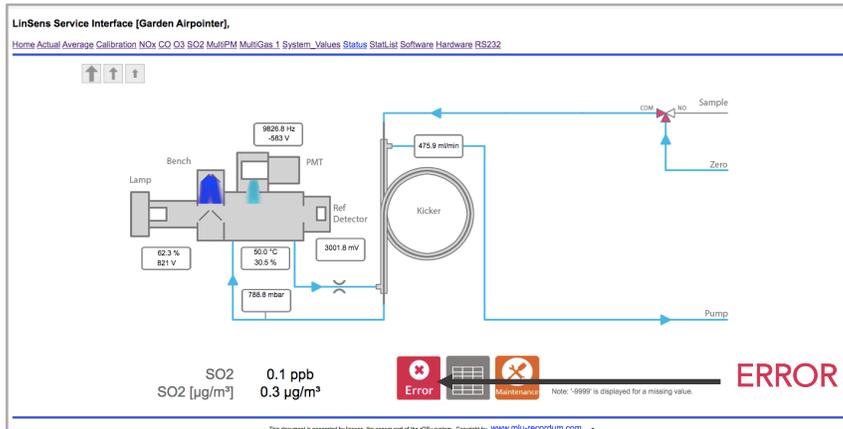
STEP 5 – USER INTERFACE

GET FAMILIAR - USER INTERFACE LINSSENS AND LINLOG

2 3



Example:
CO
Sensor



Example:
SO2
Sensor

4 Some other sub-sections in LinSens are 'Actual System Values', 'Average values' and 'Status'. Here you will see the real time or average data on your sensors.

4

LinSens Service Interface [Garden Airpointer], -> please check, you have warnings (1)
Home Actual Average Calibration NOx CO O3 SO2 MultiPM MultiGas 1 System_Vales Status StatList Software Hardware RS232

Status

Number	Status	since	Parameter	Actual	Average	Unit	lower limit fail	lower limit warn	upper limit warn	upper limit fail
1	Warning	20210215 08:07:16	CO_cylinder	6.7	6.6	ppm		100	200	
2										
3										

Warning on CO sensor

Status

LinSens Service Interface [Garden Airpointer], -> please check, you have warnings (1)
Home Actual Average Calibration NOx CO O3 SO2 MultiPM MultiGas 1 System_Vales Status StatList Software Hardware RS232

Actual Values

Number	Parameter	Value	Unit	Status	Min/Max	Time	N
GP1P	NO	12.2	ppm	0.0	0.0	20210215 11:02:29	1
GP1P	NO2	12.2	ppm	0.0	0.0	20210215 11:02:29	2
GP1P	NOx	24.4	ppm	0.0	0.0	20210215 11:02:29	3
GP1P	CO	5.482	ppm	0.0	0.0	20210215 11:02:27	4
GP1P	CO [µg/m³]	1.981	µg/m³	0.0	0.0	20210215 11:02:27	292
GP1P	O3	39.3	ppm	0.0	0.0	20210215 11:02:29	5
GP1P	SO2	0.1	ppm	0.0	0.0	20210215 11:02:29	293
GP1P	SO2 [µg/m³]	0.4	µg/m³	0.0	0.0	20210215 11:02:27	294
GP1P	PM10	11.4	µg/m³	0.0	0.0	20210215 11:02:29	1118
GP1P	PM10	273.8	µg/m³	0.0	0.0	20210215 11:02:21	1120
GP1P	SO2	4.2	ppm	0.0	0.0	20210215 11:02:27	1006
GP1P	NO	-1.0	ppm	0.0	0.0	20210215 11:02:27	1007
GP1P	NO2	0.8	ppm	0.0	0.0	20210215 11:02:27	1008
GP1P	O3	0.1	ppm	0.0	0.0	20210215 11:02:27	1009
GP1P	CO	0.0	ppm	0.0	0.0	20210215 11:02:27	1004
GP1P	CO-HO2	0.0	ppm	0.0	0.0	20210215 11:02:27	1004

Actual Values

LinSens Service Interface [Garden Airpointer], -> please check, you have warnings (1)
Home Actual Average Calibration NOx CO O3 SO2 MultiPM MultiGas 1 System_Vales Status StatList Software Hardware RS232

Average 1

Number	Parameter	Value	Status	Unit	Status	Min/Max	Time	N
GP1P	NO	12.2	0.0	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	NO2	12.2	0.0	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	NOx	24.4	0.0	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	CO	5.482	0.000	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	CO [µg/m³]	1.981	0.000	µg/m³	0.0	0.0	20210215 11:02:08	800000
GP1P	O3	39.3	0.0	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	SO2	0.1	0.0	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	SO2 [µg/m³]	0.4	0.0	µg/m³	0.0	0.0	20210215 11:02:08	800000
GP1P	PM10	11.4	0.0	µg/m³	0.0	0.0	20210215 11:02:08	800000
GP1P	PM10	273.8	0.0	µg/m³	0.0	0.0	20210215 11:02:08	800000
GP1P	SO2	4.2	0.0	ppm	0.0	0.0	20210215 11:02:08	1000
GP1P	NO	-1.0	0.0	ppm	0.0	0.0	20210215 11:02:08	1000
GP1P	NO2	0.8	0.0	ppm	0.0	0.0	20210215 11:02:08	1000
GP1P	O3	0.1	0.0	ppm	0.0	0.0	20210215 11:02:08	1000
GP1P	CO	0.0	0.0	ppm	0.0	0.0	20210215 11:02:08	1004
GP1P	CO-HO2	0.0	0.0	ppm	0.0	0.0	20210215 11:02:08	1004

Average 2

Number	Parameter	Value	Status	Unit	Status	Min/Max	Time	N
GP1P	NO	12.2	0.0	ppm	0.0	0.0	20210215 11:02:08	800000
GP1P	NO2	12.2	0.0	ppm	0.0	0.0	20210215 11:02:08	800000

Average Values