uRADMonitor A3 Quickstart Guide

Congratulations on purchasing this excellent environmental monitor! You are now part of an ambitious global project. The uRADMonitor is a global array of interconnected monitoring stations, focused on continuous Environmental Surveillance. Its purpose is to generate fully transparent open data, to assert the quality of our environment, directly impacting our health.

uRADMonitor A3 is an automated, fixed monitoring station that tracks a total of 9 important air quality parameters. It comes in a compact, rugged aluminum enclosure with wall mounting support. The data is exported to the uRADMonitor network and can be accessed in real time using the cloud API interface or directly via the local network. Four variants are available with the same sensors but different connectivity options: Ethernet, Wifi, GSM/Cellular and LoRAWAN.

Many of the pollutants measured by Model A3 can have a negative impact on our health, ranging from simple allergies to more severe conditions. It is therefore imperative to know our environment if we intend to preserve our health. This is not just about a neighborhood or city, it goes up to global scale thanks to the interconnected network of detectors we are building.

Automated monitoring provides more options over using handheld units occasionally. Mapping data trends becomes possible thanks to continuous surveillance and a permanent data flux. We have a higher detection capability including for small variations and can trigger automated alarms if predefined thresholds are reached.

More information is available online, on the uRADMonitor Blog or the uRADMonitor Forum:
http://www.uradmonitor.com/blog
http://www.uradmonitor.com/forum

Connecting and starting your A3

If you have a radio variant, connect the antenna first. If it is the wired variant, connect it to the Internet Router using the Ethernet cable. Next, connect the uRADMonitor to the power source using a DC adapter with voltage between 6V and 28V.

- **The Ethernet variant**

Make sure the device is connected to the Internet router using the Ethernet cable. Use a longer cable if needed. The Internet router must have DHCP enabled. When powered, the uRADMonitor gets an IP automatically, via DHCP, and will show up on the map automatically.

- **The WIFI variant**

Use a smartphone or a computer with WLAN capabilities to connect to the local hotspot spawned by your A3 unit. The SSID is uRADMonitor-XX, where XX are the last two digits of the Device ID number. The key is the Device ID, in uppercase, as printed on the enclosure. Open 192.168.4.1 in your browser, and click the "WIFI" link to setup the connection to the Internet AP. Enter the SSID and key of your Internet Access Point. If the connection fails, you will see the status message, and three consecutive beeps will indicated the problem.

- **The LORAWAN variant**

Your device must be pre-provisioned with the LoraWAN Gateway and network server details.

- **The GSM variant**

A data SIM card must be inserted in your A3 unit before it can connect over Internet.

Starting with hardware version HW106, the LoRaWAN, Wifi and GSM settings can be customized via the USB connection. Consult your product manual for complete details.

Data Access

There are three easy ways to access the data generated by your A3 detector:

1. local access, available for the Ethernet and Wifi variants, simply open the LAN IP of your unit in your browser, to access an embedded mini webserver, where you can see the measurements or access the data as a JSON formatted file.
2. on the uRADMonitor portal frontend, open http://www.uradmonitor.com/?open=ID , where ID is your unit's ID (82XXXXXX), please replace accordingly. This will open the globl map to your unit's location and you can see the data represented in charts.
3. using the uRADMonitor cloud API, via REST API calls, please see the details presented in the uRADMonitor Dashboard on http://www.uradmonitor.com/dashboard

Spread the word!

uRADMonitor is a global array of network connected monitoring stations, focused on continuous Environmental Surveillance. The bigger the network is, the better it does its job. Your help in making it known is important.

Warranty

Your uRADMonitor unit is covered by warranty. Please see the Limited Warranty Terms document for the warranty period and terms.