AURA2 · QUICK START

Getting started with the Aura2

Placement, power, reading the module in a browser, the lights and the environmental log of the Aura2 ambient sensor module.

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Network name of this device	`http://_____.local/`
Connected to Wi-Fi network	_____ (2.4 GHz)

Qualimetric has set the clock and the device label, and, if you supplied your network details, connected the Aura2 to your Wi-Fi network.

1. Place it

Mount the Aura2 **upright, ventilation slots at the bottom**, close to the balance and in the same air. Keep the slots free and away from heat sources and air-conditioning draughts. Allow **at least 30 minutes** to settle before you rely on the readings.

2. Power it

Plug in the USB-C cable, to a computer or a USB power adapter (5 V DC). The Aura2 starts measuring and logging immediately; the internal battery charges while USB is connected and keeps it running for at least 6 hours without.

3. Read it

In a web browser on the same network, open the address above followed by:

Address	What you get
`/api/v1/avg`	one measurement: mean, SD and n per quantity (n = 16)
`/api/v1/avg?n=32`	the same, averaged over 32 readings
`/api/v1/id`	identity: chip ID and sensor serial number
`/api/v1/log/lijst`	the log files on the card
`/api/v1/`	all available pages

Temperature in °C, humidity in %RH, pressure in **Pa** (101 325 Pa = 101.325 kPa). To read the Aura2 from your own software, over Wi-Fi or USB, see the **Aura2 API manual**.

4. Know the lights

Light	
ON/BAT (red)	on: USB power · slow blink: on battery · fast blink: battery low
COMM (yellow)	flashes with every answer and every log line
WIFI (blue)	on: connected · blinking: connecting · off: Wi-Fi off

5. The log

Every 60 s the Aura2 writes one line to the microSD card, one file per day (UTC). Download a file in the browser: `/api/v1/log/bestand?naam=2026-09-19.csv`.

The log is indicative: use it for trends and disturbances, not for a certificate. For that, let your software request a measurement and timestamp it with its own clock.

Good to know

- Wi-Fi is **read-only** and has **no password or encryption**: anyone on the network can read the data, nobody can change anything. Use a separate laboratory network.
- Settings, clock, Wi-Fi and (optional) firmware updates: over USB with the free **Aura2 Setup Tool** for Windows (nexchrom.nl/downloads), or with the commands in the API manual.
- Recommended: a **preventive service every two years** by Qualimetric (new battery and clock cell, firmware update if you wish), best combined with a calibration.
- Identify the device by **chip ID + sensor serial number** (`/api/v1/id`), not by its label.
- A full battery and a missing battery look the same while USB is connected. Unplug to check.

Instruction manual, API manual and EU declaration of conformity: scan the QR code on the back label · nexchrom.nl/downloads · info@qualimetric.nl

Indoor use only · 0–50 °C · 0–95 %RH non-condensing · charge at 0–45 °C · contains a Li-Po cell: do not puncture, crush, short-circuit or incinerate · not for safety-critical applications.