



balena-powered Indoor Air Quality device

[IAQ]

How it works:

The IAQ device uses one or more sensors to generate an indoor air quality score which it displays using an LED matrix on the front of the unit. The score ranges from 0 (best air quality) to 99 (hazardous air quality).

The LED display changes color based on the score as follows:

Score range	Description	LED color
0 - 49	Good air quality	green
50 - 74	Moderate air quality	orange
75 - 99	Hazardous air quality	red

Setup:

1. Power the device using the 5V micro-USB jack on the left side.
2. Connect to WiFi: The device includes WiFi-Connect. Connect to the opened access point on the device from your mobile phone or laptop. The access point SSID is, by default, "WiFi Connect"
3. After connecting to the access point, open the captive portal web page using a web browser. You must specify port 8080 by appending :8080 to the end of the web address used to access the portal. If you see a grafana error page, you forgot to add :8080 to the URL.
4. The captive portal provides the option to select a WiFi SSID from a list with detected WiFi networks and enter a passphrase for the desired network.
5. When the network credentials have been entered, WiFi Connect will disable the access point and try to connect to the network. If the connection fails, it will enable the access point for another attempt.
6. See <https://github.com/balena-os/wifi-connect> for more details

More info:

Project repo: <https://github.com/balena-io-playground/balena-iaq>

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