

ebm-papst IAQ Monitor *Quick Start Manual*

Models:

- 8PSL (Standard Model)
- 8PSL-DE (Display Edition Model)
- 8PSLM (Modbus Model)
- 8PSLM-DE (Display Edition Model with Modbus)

Product Overview

ebm-papst IAQ Monitor is a powerful air quality monitor measuring particulate matter (PM_{2.5}), carbon dioxide (CO₂), volatile organic compounds (TVOC), temperature and humidity including a customizable coloured LED bar.



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Package Contents

The IAQ Monitor package contains the following:

- ebm-papst IAQ Monitor
- USB Power supply (optional)
- USB-C cable (optional)
- Wall-mount lock
- Modbus plug (8PSLM version only)
- This quick start manual

Mounting Instructions

The monitor should be placed away from doors, windows ventilation or HVAC registers, and avoid direct sunlight. Please ensure that the monitors is mounted on the wall in the correct orientation and with unobstructed air flow at the bottom and top of the monitor.

Screws and wall anchors are recommended for wall mounting or you can use strong tape (e.g. 'command strip'). The monitor enclosure cable management allows for use of a wall socket above or below the monitor. The monitor must remain plugged in with power at all times to ensure uninterrupted operation of the device.

WiFi Connection

When the monitor is powered on for the first time, it requires an initial connection to your Wi-Fi network. Therefore the monitor will open an access point where you can connect directly with your phone to enter your Wi-Fi network credentials. Please follow these steps:

1. Connect the monitor to the power supply.
2. The monitor will enter Wi-Fi Configuration mode if it does not find any known Wi-Fi network it was previously connected to. One blue LED lights up.
3. Look for a hotspot named ebmpapst-xxx in your phone's Wi-Fi settings and connect to it with the Wi-Fi password "cleanair". Alternatively scan the QR code on the back labeled "Add to WiFi".
4. After a few seconds, you will see a Wi-Fi connection menu and all monitor LEDs will turn blue. Click on "Configure Wi-Fi" to search for nearby Wi-Fi networks or "Configure Wi-Fi (manual)" if you have a hidden Wi-Fi network. Please note that the monitor only supports 2.4GHz networks.
5. Select the network you want to connect the monitor to and enter the credentials.
6. Once the monitor connects successfully to the internet, all LEDs will turn green. If not, all will turn red. In the later case please ensure you have entered the correct WiFi password and repeat the steps.

WiFi / IT Infrastructure Requirements

Please note the following:

- IAQ Monitor only supports 2.4GHz WiFi.
- IAQ Monitor does not support WPA 2 Enterprise authentication.
- IAQ Monitor does not support Wi-Fi authentication through captive portals. It needs a regular SSID with a password.
- In case you need to white list the MAC address of the monitor, the serial number printed on the back of the device corresponds to the MAC address.

Specifications

Name: ebm-papst IAQ Monitor

Dimensions: 130 x 130 x 36 mm

Weight: 300 g

Wireless Connectivity: WiFi 2.4 GHz

Input: 100 ~ 240 V AC, 50/60 Hz USB-C

Output 5V/2.0A

Color-LED bar (configurable)

Certifications: RESET® Air, FCC, CE, RoHS, WEEE

Sensor Modules Accuracy

PM2.5 (laser scattering principle):

±10% @ 100~500µg/m³,

±10µg/m³ @ 0~100µg/m³

CO₂ (NDIR): Range 0 - 10.000ppm, ± 40 ppm ± 3%,

automatic baseline calibration

TVOC (multi-pixel gas sensor): 0 - 1,000 ppm of ethanol equivalents, accuracy: 15%

Temperature: Range: -40 to 125°C, ±0.3°C @ 0-90 °C

Relative Humidity: Range 0 - 100% RH, ±2% @ 0-100% RH

Test Report

The test report of the monitor can be accessed through the "show sensor information" screen on the dashboard's admin shortcuts.

CE Declaration of Conformity Report

Hereby, ebm-papst neo GmbH & Co. KG. declares that the radio equipment type Wireless Local Area Network Device is in compliance with Directive 2014/53/EU.



WEEE Statement

All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC 20cm Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Contains: FCC ID: 2AC7Z-ESP32WROVER

Test Report

- Only use the provided charger and cable
- For indoor use only
- Unplug the monitor from the outlet before servicing
- DO NOT clean with liquid
- DO NOT use in wet or damp areas
- DO NOT exceed the recommended electrical ratings
- Operating ambient temperature: 0° to 50° Celsius

Support

In Case you have any problems, please contact info@epneo.com or visit our Support page www.epneo.com/support.

Manufacturer

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