Note: In the display interface, the background color block of CO_2 and formaldehyde, the surrounding color circle of PM2.5, and the grade color block of VOC all have three states: green, yellow, and red, representing the excellent, moderate, and bad of each indicator. And the VOC grade color block is divided into 4 segments, corresponding to 0~3 grades respectively.
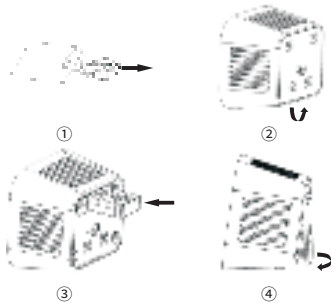
3.3 Product information

Product Type	FA7000
Working condition	-10~50℃;within 0~95%RH (Non-condensing)
Storage condition	-20~50℃;within 0~95%RH (Non-condensing)
Rated voltage	DC5V
Size	90x80x53 mm
Display	2.8 inch TFT LCD screen
Wireless module*	WiFi 802.11b/g/n Bluetooth BLE4.2

*The wireless module is an optional component and needs to be customized according to customer requirements.

04/ Instructions

4.1 Installation Instructions for the Formaldehyde Sensor

① Take out the individually wrapped aluminum foil bag from the packing box, open and take out the formaldehyde/VOC;

② Turn over and uncover the rear cover from the gap at the bottom of the product;

③ Insert the formaldehyde/VOC module into the corresponding USB socket on the product;

④ Insert the top buckle of the rear cover into the corresponding hole on the top of the product, and fix it with the magnet at the bottom.

4.2 Supply power to the product through the power cord, and display the air quality test after warming up data.

4.3 Disassemble the formaldehyde/VOC module: Because the formaldehyde/VOC module is a consumable, If the product is not used for time, the formaldehyde/VOC module can be disassembled and installed in primary aluminum foil bag, to extend the life span of the formaldehyde/VOC module. When disassembling the formaldehyde/VOC modules, use the fingers on the built-in handle to turn the handle over, and then use the handle to take out the module.

4.4 Intruction for CO_2 manual calibration button

① Stable working more then 15mins;

② Using power bank or some other portable power supply and go outdoor;

③ Continue pressing the button for more then 8s, the screen will appear a progressing bar;

④ Suggest customers keep away from FA7000 more then 2 meters (Avoid the breathing CO_2 influence calibration), and waiting for 2 mins till the progressing bar disappear. Then the manual calibration finished.

05/Common troubleshooting guidelines

Problem describle	Processing method
Black screen, no display	① Confirm whether the product is correctly connected to the power supply , power adapter whether meets the requirements; ② Confirm whether the power plug of the adapter is in good contact.
Formaldehyde value is high	① Please keep ventilate for 15 minutes beforeuse; ② Eliminate possible sources of interference: oilfume,cigarettes,perfume,fruits (which emit aromatic gases , containing alcohol,fermented products,etc.),alcohol and alcohol-containing items,frequent walking,etc.

06/After-sales service and consultation

For after-sales service and consultation, please contact local distributor or FATON HEALTH directly.

Web: www.faton-health.com

FATON
healthcare benelux

Product Manual

Qualified Certificate

Product Name： FATON Air Quality Monitor

Product Type： FA7000

Inspector：

Inspect Date：

FATON-HEALTH
Air Quality Monitor
FA7000

01 /Preface

Thank you for purchasing the FA7000 air quality monitor. This product can detect six indicators of indoor, temperature, humidity, PM2.5, CO₂, formaldehyde and VOC. Please read the instructions carefully before use and pay attention to all precautions.

Precautions

✓ Please use 5V/1A power adapter, otherwise it may cause overheating and product failure due to excessive current consumption.

✓ Do not insert sharp metal tools into the ventilation holes of the housing, otherwise it will cause damage to the sensor or electric shock.

✓ Do not allow water or any liquid to enter the module, as this may cause product failure and electric shock.

✓ Please keep the monitor in the power-off state when users install or remove the formaldehyde/VOC module.

✓ This product is only suitable for general indoor environment, please do not place it in an environment with too high(above 50℃)or too low tempetature (below -20℃), do not place the product in environment exposed to diirect sunlight for a long time.When the monitor is equipped with the formaldehyde module, please ensure that the temperature condition is between 0℃ to 40℃.

✓ Please stay away from indoor environments with high humidity, oil fumes, corrosive indoor enviroments, etc.If the monitor exposed to high-concentration gas in short time, it may cause the formaldehyde sensor to fail temporarily. Then the product must be placed in a clean and ventilated environment to recover. The recovery time may be as long as 1 to 2 days.

✓ Please do not block the vent slot when the product is in use, so as not to affect the measurement accuracy.

✓ The formaldehyde sensor used in this product has the characteristics of high sensitivity, so it requires a stable detection environment and eliminates major interferences:

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including but not limited to ethanol (alcohol), methanol, toluene, xylene, carbon monoxide, hydrogen sulfide, etc. In order to ensure the accuracy of formaldehyde measurement, avoid using it in environments with high alcohol content such as perfume and cooking wine; if the product is placed in high concentration organic gas for a long time, it may cause irreversible damage to the formaldehyde sensor.
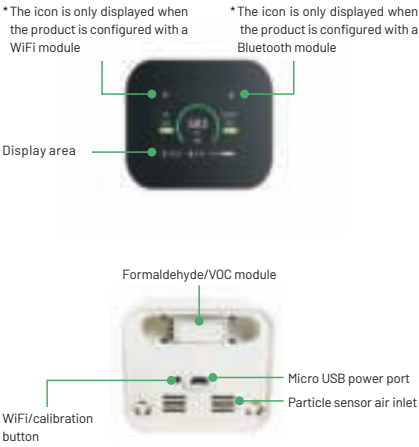
✓ This product uses an electrochemical sensor to detect the indoor formaldehyde concentration. The detection value is mainly for users' reference. It cannot be a substitute for professional instruments, and the detection results must not be used in any other way.

02 /Packing List

① FA7000 Air Quality Monitor x1

② Micro USB cable x1

③ Product Manual x1

④ Formaldehyde/VOC module (Optional)

03 /Product Introduce

3.1 Appearance

*The icon is only displayed when the product is configured with a WiFi module

*The icon is only displayed when the product is configured with a Bluetooth module

Display area

Formaldehyde/VOC module

Micro USB power port
Particle sensor air inlet
WiFI/calibration button

3.2 Technical parameter of sensors

Indictor	Item	Explanations
Temperature	Measurement	-10~50℃
	Accuracy	±1℃ (Measured after 30 minutes stable underenvironment for 25±2℃, 50±10%)
Humidity	Measurement	0~95%RH
	Accuracy	±8%RH
PM2.5	Measurement	0~1000μg/m³
	Accuracy	≤100μg/m³:±10μg/m³ >100μg/m³:±10% readings (Refer to TSI 8530, 25±2℃, 50±10%RH)
	Grade range	● Excellent ● Moderate ● Bad
CO₂	Measurement	400~5000ppm
	Accuracy	±(50ppm+5% readings)
	Grade range	● Excellent:400~800ppm ● Moderate:801~1200ppm ● Bad:>1200ppm
Formaldehyde (Optional)	Measurement	0~1mg/m³
	Accuracy	≤0.100mg/m³:±0.03mg/m³ >0.100mg/m³:±30%readings (Refer to Gasera one, 25±2℃,Measured after 2 minutes stable under environment 50±10%RH)
	Grade range	● Excellent ● Moderate ● Bad
VOC (Optional)	Measurement	Level 0、1、2、3
	Grade range	● Excellent ● Moderate ● Bad