Honeywell
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Honeywell Indoor Air Quality (IAQ)

User Manual

Sensing and Productivity Solutions Honeywell

www.honeywell.com.cn

About the Product

Honeywell Indoor Air Quality (IAQ) is a multi-functional Indoor Air Quality (IAQ) capable of generating at real time, numerous air quality data. Used in conjunction with mobile phone App, it allows users to monitor at all times and anywhere, indoor air quality and take appropriate measures.

Product Code	PM 2.5	Formaldehyde	TV OC	CO_2	Temp	Humidity	IQ%	Time Alarm	App
HAQSPF	✓	✓	–	–	✓	✓	–	✓	✓
HAQSPA	✓	✓	✓	✓	✓	✓	✓	✓	✓

IQ%: The data reflect the impact of the air environment on an individual's cognitive ability, as the latter differs according to the air environment. Higher IQ% means better effect of the air environment on cognitive ability.
Cognitive ability mainly includes the following: basic mobility, utilization of mobility, level of focus on assigned task, information collection, information processing, breadth of thought, strategy, task orientation and response to crisis.

Note: Cognitive ability differs from individual to individual. IQ% only reflects the impact of air environment elements on cognitive ability.
An excellent air environment is capable of effectively raising cognitive ability, thus improving efficiency of various activities.

Basic Specifications

Product Measurement: 80x80x22(mm)
Weight: HAQSPF 150g / HAQSPA 156g
USB Port: Micro USB
Materials: Aluminum alloy casing
Screen: OLED Touch screen
Input Voltage: 5V
Input Current: 1A
Battery: 18650 lithium-ion battery
Battery Capacity: 2600mAh

Range and Precision

Description	Detection Range	Precision/Resolution
PM2.5	100—999ug/m^3	±15%
	<100ug/m^3	±15ug/m^3
HCHO (Formaldehyde)	0 — 2ppm	0.01ppm(resolution)
TVOC	0.12— 0.99ppm	0.01ppm(resolution)
CO_2	400 — 2000ppm	1ppm(resolution)
Temperature	-10°C — 40°C	±1°C
Humidity	0% — 100%	±5%
IQ%	0 — 100%	1%(resolution)

Wireless connection: Wi-Fi IEEE 802.11 b/g/n 2.4GHz

Equipment requirements: Supports mobile phones with Android 4.42 or iOS 8.0 or better

Note: Supports only iPhone5 and later versions

App Download

Scan the barcode or search Honeywell IAQ in Apple Store and Android Market

iOS

Android

Network Connection

1. Press and hold Start button on the top of the equipment for 5 seconds
2. Press and hold Wi-Fi button and wait for a "tick" sound from the equipment. The Wi-Fi icon will flash, indicating that the equipment can now be connected to the network
3. Download the App, add new device, connect by following App's instruction interface

App Icon and Instructions on Colors

	PM2.5	HCHO	TVOC	CO_2	IQ%
😊	0 — 79ug/m^3	< 0.08ppm	< 0.38ppm	< 1000ppm	>60%
😐	80 — 199ug/m^3	–	–	–	–
☹	> 200ug/m^3	>0.08ppm	>0.38ppm	>1000ppm	<60%

Note: Air quality of PM2.5 and IQ% are showed through the change of font color accordingly .

About App Functions

- Self-defined alarm value: Default alarm value is factory setting. For threshold please see explanation above for App icon. The user can define alarm value according to its own needs. The equipment's indicator light and App on the user's mobile phone will display in accordance with the user's definitions.
- Alarm clock: 3 alarm clocks can be set for each device while it is connected to the network. If the alarm clock rings simply touch the screen or press the Home button to switch it off. The alarm clock will stop after 10 minutes if there is no operation.

Mode and Setting

Sleep mode: The screen and indicator light will extinguish during set time durations and the frequency of data collection will reduce to once per hour. Switch the mode using the App if the device is connected to network.

Energy-saving mode: The frequency of data collection for the device will reduce to once per hour. Switch the mode using the App if the device is connected to network.

Interface Instructions

- Enter the main interface after activating the device.
- Press the icon light to switch to main screen; it will show real-time air value.
- Flashing icon indicates excess values.
- The device will automatically switch to standby interface if no operation is being carried out after 3 minutes; standby mode will also be indicated at App side.Lightly touch the screen to switch back to the main interface.

Main interface

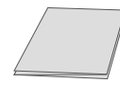
Standby interface

Device indicator light and color: The device's indicator light shows the current air quality indicator for the detection item

Detection Item	Green	Orange	Red
PM2.5	0 — 79ug/m^3	80 — 199ug/m^3	≥200ug/m^3
Formaldehyde	< 0.08ppm	—	> 0.08ppm
TVOC	< 0.38ppm	—	> 0.38ppm
CO_2	< 1000ppm	—	> 1000ppm
Temperature	-10°C — 40°C	—	—
Humidity	0% — 100%	—	—
IQ%	> 60%	—	< 60%

Indoor Air Quality (IAQ) x 1; Product Manual x 1; USB cable x 1; Warranty card x 1

Indoor Air Quality (IAQ)



Product Manual

Data line

Warranty card

Attention

- Matters to note when detection formaldehyde: The Indoor Air Quality (IAQ)'s formaldehyde sensor is electrochemical sensor. As such it is normal for the sensor to give higher reading when the device is activated. Place the device in a well-ventilated position after it is activated and carry on further detection after the formaldehyde reading is less than 0.03; detection data over 12 hours in an enclosed room will be more accurate. As the device's electrochemical sensor can also be affected by toluene, benzene, alcohol, acetic acid, hydrogen sulfide and carbon monoxide which can found in alcohol, perfume, cosmetics and pesticides, please make sure that such items are not near to the device when carrying out formaldehyde detection.
- The device needs to be connected to network in order for data to be updated. Please therefore ensure that it is always connected to network.
- Charging is prohibited if the temperature is below zero degrees.
- The device collects data using the fan intake. As such it is normal for the device to emit soft noises.
- Please keep the device far away from strong magnetic environment. This will interfere with its built-in sensor (e.g. PM2.5 sensor).
- If the device is unable to connect to the network it could be because of improper mDNS and DHCP functions in the router. Please check whether these functions in the router are operating normally or restart the router before trying to link to the network.

Warranty

- Under circumstances where the product is in normal use and maintenance, Honeywell provides users with the warranty that this product will have no defects in processing or materials within one (1) year following the date of purchase. Where Honeywell verifies such product experiences any defect or malfunction in any form within the specified warranty period, Honeywell will repair or replace any defect product upon verification. In case of defect products, users may return such product to the distributor when you make the initial purchase with the receipt or other purchase voucher that can prove the date of purchase.
- This warranty does not cover any defects and malfunction of the product arising from any unauthorized dismantling or reinstallation. This warranty also does not cover any defect or malfunction that results from human factors during the warranty period. Honeywell's sole responsibility is to repair or replace the product based on the aforesaid provisions.
- Honeywell shall not be responsible for any loss or damage of any form, including any accidental or necessary direct or indirect loss as a result of breach of any warranty or any other acts that damage the product.
- This warranty represents the only explicit guarantee as undertaken by Honeywell with respect to such products. Any implied guarantee, including implied guarantees with respect to product marketability and applicability of specific usage, shall not apply.
- This warranty only applies to the main unit of the product, and does not cover the package, manuals, consumables, or other components susceptible to damage or consumption.

FCC Statements

Note: This product 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 product 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 product 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.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC Statements

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

1. this device may not cause interference, and

2. this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage, et

2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut

fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

RF Exposure

After the laboratory measurement, the SAR value (0.0085W/kg for Europe, 0.029W/kg for North American) satisfies the RF exposure requirement

To satisfy RF exposure compliance the user should operate the device as the User Manual introduced and the antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.