# INKBIRD

## IAM-T2

**Smart Indoor Air Quality Monitor User Manual**

*Please keep this manual properly for reference. You can also scan the QR code to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com**.*

Wenn Sie eine Bedienungsanleitung in deutscher Sprache benötigen, scannen Sie bitte den QR-Code und besuchen Sie unsere Website, um sie zu erhalten und ein Video über die Verwendung des Produkts zu sehen.

Se avete bisogno di un manuale di istruzioni in italiano, scansionate il codice QR e visitate il nostro sito web per ottenerlo e vedere un video su come utilizzare il prodotto.

Si vous avez besoin d'un mode d'emploi en français, veuillez scanner le code QR pour visiter notre site officiel

afin d'obtenir et de visionner la vidéo d'utilisation du produit !

Als je een Nederlandstalige handleiding nodig hebt, scan dan de QR-code om naar onze officiële website te gaan en bekijk de video over het gebruik van het product!

Si necesita el manual de instrucciones en español, escanee el código QR para ir a nuestro sitio web oficial y ver el vídeo sobre cómo utilizar el producto.

# CATALOGUE

Of the various indoor gases, $CO_2$ is the one that best represents indoor air quality. High levels of $CO_2$ can cause headaches, fatigue, rapid heartbeat, and shortness of breath. Prolonged exposure to high levels of $CO_2$ can have negative effects on the respiratory system and even lead to diseases such as tracheitis and pneumonia. It is therefore vital to maintain an appropriate range of indoor $CO_2$ concentrations for the sake of health. That's why we introduced the IAM-T2, an intelligent indoor air quality monitor that helps you stay safe and healthy.

## *02* *Technical Specification*
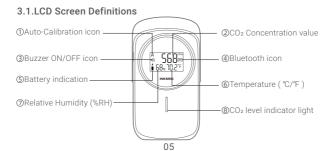
| Product name | Smart Indoor Air Quality Monitor |
|---|---|
| Brand | INKBIRD |
| Model | IAM-T2 |
| Battery capacity | 3000mAH Lithium Battery |
| Power supply | DC5V/1A with USB Type C charging cable (the cable length is 1M) |
| Screen Type | LCD screen with white backlight |
| Networking Configuration | Low-power-consumption Bluetooth 5.0 |

| Sampling Interval | 1min/2min/5min/10min (default 1min) |
|---|---|
| Smart Application | INKBIRD APP |
| Production Dimension | 111*66*21mm |
| Production Weight | 185g |
| Package Dimension | 178*105*36.5mm |
| Charging time | About 6 hours |
| Battery life | more than 6 months |

**Remark:**When the sampling interval is set to 1 minute, the battery can last for approximately 60 days; when the sampling interval is set to 10 minutes, the battery can last for more than 6 months. The longer the sampling interval, the longer the battery life.

| Testing data | Measurement range | Resolution | Accuracy |
|---|---|---|---|
| $CO_2$ concentration | 0-9999ppm | 1 ppm | ± 40 ppm （±5%） |
| Temperature value | -9.9℃ - 100℃ | 0.1 °C (0.1 °F) | ±0.2 °C (±0.36 °F) |
| Relative humidity | 0-99% | 1% | ± 1.8 % |

### 3.1.LCD Screen Definitions

①Auto-Calibration icon

②$CO_2$ Concentration value

③Buzzer ON/OFF icon

④Bluetooth icon

⑤Battery indication

⑥Temperature ( ℃/℉ )

⑦Relative Humidity (%RH)

⑧$CO_2$ level indicator light

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### ① **Auto-Calibration icon**：

A When this icon appears, the smart auto-calibration is turned on.
When this icon disappears, the smart auto-calibration is turned off.

Please do not activate automatic calibration if the device has been stored in an environment with $CO_2$ levels≥1000 ppm (e.g., a grow tent) for extended periods. Manual calibration may be conducted when necessary.

### ② **$CO_2$ Concentration value**：

8888 *$CO_2$ PPM (parts per million)，$CO_2$ concentration level in ppm (parts per million).
*Current $CO_2$ concentration value (ranged from 0 to 9999)

### ③ **Buzzer ON/OFF icon**

◁≋ When this icon appears, the buzzer is turned on; when this icon disappears, the buzzer is turned off.

**NOTE:** See Section 4, <<Operating Buttons Definitions>>, in this manual for details on switching the buzzer on or off.

④**Bluetooth icon**

❐ When this icon appears, Bluetooth is turned on but not connected.

When this icon "❐" is flashing every 0.5 second, the device Bluetooth is pairing.

❐ When this icon appears, the Bluetooth connection is successful.

⑤**Battery indication**

🔋 Current battery level.    🔋 The device is charging.

⑥**Temperature ( ℃/℉ )**    The temperature of the air in ℃ or ℉

### ⑦Relative Humidity (%RH)

The relative humidity of the air, expressed in %RH.

### ⑧CO₂ level indicator light

\*If the $CO_2$ indicator light blinks green 3 times each time the $CO_2$ concentration value is refreshed, it means that the $CO_2$ concentration level is in good condition ($< 1000$ ppm).

\*If the $CO_2$ indicator light blinks yellow 3 times each time the $CO_2$ concentration value is refreshed, it means that the $CO_2$ concentration level is in medium condition ($1000 \sim 1400$ ppm).
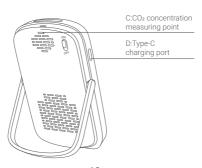
\*If the $CO_2$ indicator light blinks red 3 times each time the $CO_2$ concentration value is refreshed, it means that the $CO_2$ concentration level is in unhealthy condition ($> 1400$ ppm).

Note: These are default thresholds that can be reconfigured using the INKBIRD app.

## 3.2  Product Appearance Introduction



A.Foldable stand

B:Temperature and humidity measuring point

C:CO₂ concentration measuring point

D:Type-C charging port

**A: ℃/℉ Switch button**

**Short press:** Change the temperature unit between℃ and ℉;

**Long press:** Press and hold it for 2 seconds to turn off/on the buzzer.

**B:Bluetooth button**

**Short press:** When Bluetooth is connecting, the Bluetooth icon" " will flash every 0.5 second, press it to pair the Bluetooth.

**Long press:** Press and hold the button for two seconds to disconnect the Bluetooth.

**C:Power Button**

**ON：** Turn on the device

**OFF：** Turn off the device

*Two ways to place the IAM-T2 monitor*



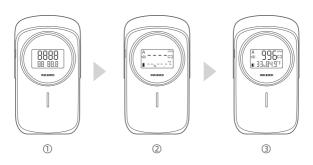A：**Standing on the table**



B：**Hanging up**

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*6.1 Push the switch to the "ON" position to turn on the device, and the device LCD will display as shown below:*

①: When turning on the device, the LCD screen will display " $\boxed{8888}$ " for 3 seconds.

②: After 3 seconds, the LCD screen will show " $----$ " and flash for 30 seconds at 1 second interval, indicating that the sensor is warming up for collecting data.

③: After 30 seconds, the LCD screen will display the current $CO_2$ concentration, the ambient temperature, and the relative humidity.

① ② ③

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*6.2.1 Low battery alarm:* When the battery is low, the battery level icon" 🔋 " will flash; after one minute, the device will be automatically turned off.

*6.2.2 Unhealthy data alarm:*

When the $CO_2$ concentration reaches an unhealthy state (red), the device emits a soft "beep" buzzing sound.

*6.2.3 Settings on the App:*

\*Turn off the buzzer;

\*Sound one time: When the sampled value continuously exceeds the alarm value within a period, the buzzer will sound at the first sampling time when the preset alarm value is judged to be exceeded.

\*Sound every time: When the sampled value continuously exceeds the alarm value within a period, the buzzer will sound every time it is judged that the preset alarm value is exceeded.

*7.1 INKBIRD APP Installation*



Search for the INKBIRD App from Google Play or App Store to get it for free, or you can scan the QR code below to download it directly.

**1.** Your iOS devices must be running iOS 12.0 or above to download the app smoothly.

**2.** Your android devices must be running android 7.1 or above to download the app smoothly.

**3.** APP Location Permission Requirement: We need to obtain your location information to discover and add nearby devices. INKBIRD promises to keep your location information strictly confidential. And your location information will only be used for the location function of the App and will not be collected, used, or disclosed to any third party. Your privacy is very important to us. We will abide by relevant laws and regulations and take reasonable security measures to protect your information security.

**7.2 Registration**

**Step1:** Registering an account is necessary before using the INKBIRD app for the first time.

**Step2:** Open the app, select your Country/Region, and a verification code will be sent to you.

**Step3:** Enter the verification code to confirm your identity, and the registration is complete.

### 7.3：**How to Connect**

*Turn on the Bluetooth on your smartphone and be careful to put the device as close as possible to the smartphone.

*Open the INKBIRD app and click "+" on the top right corner to add a device. Then follow the app instructions to complete the Bluetooth connection. Be careful to put the device as close as possible to the smartphone.

*Please check the above steps and try again if the pairing fails.

### 08 *Cleaning and Maintenance*

**8.1.** Do not expose this product to water, or place it in high-temperature environments over 50℃. Keep it away from fire sources.

**8.2.** This product is a precise measuring instrument, do not disassemble it by yourself.

**8.3.** Do not place this product in an environment full of dust or corrosive gas for measurement.

**8.4.** Do not directly expose this product to the sun for long.

| ISSUES | POSSIBLE SOLUTIONS |
|---|---|
| The value of $CO_2$/temperature/humidity did not change for a long time | **1.** The device samples once per minute at the fastest. Please wait for it. If you need to change the sampling time to 2min/5min/10min, please set it on the App. The longer the sample interval, the longer the battery life.<br>**2.** At the same place, and when the air environment is slightly flowing, the $CO_2$ concentration is relatively stable, so the value will not change rapidly.<br>This is a stable and accurate method of air quality detection. |

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.

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.

This item carries a 1-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge. For any problems in use, please feel free to contact us at **support@inkbird**.com. We will do our best to help you.

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**DESIGNED BY INKBIRD**