



ACCUR8 CO2-6000 CO2 Monitor with Temperature and Humidity User Manual

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ACCUR8

ACCUR8 CO2-6000 CO2 Monitor with Temperature and Humidity



Introduction

Thank you for purchasing this ACCUR8 product. This user manual is to be considered a component of the device. Read carefully before using the device. Keep in a safe place for future reference. When the device is sold or given to someone else, the user manual must be provided to the new owner/user of the product.

As part of our ongoing policy to improve the design and specification of our products, we reserve the right to change any detail given without prior notice. Tempcon Instrumentation Ltd shall not be responsible for any liability of any nature which may result from the use of any information provided in technical literature.

Errors and technical changes excepted.

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General Safety Instructions

Risk of electric shock

Only use the device as described in the manual; otherwise, you run the risk of an electric shock.

- Children must only use the device under adult supervision.
- Before starting up the device, check the device for signs of damage.
- Never use a damaged device or a device with damaged live parts. Damaged parts must be replaced by an authorised service company.
- Only use the display console in completely dry environment and do not touch it with wet or moist parts of your body.

Risk of suffocation/choking

Improper use of this product can result in suffocation, especially for children. The following safety information must be observed at all times.

- Keep packaging materials (plastic bags, rubber bands etc.) away from children. They can cause suffocation.
- This product contains small parts that could be swallowed by children. There is a risk of choking.

Risk of damage to property

Improper handling can result in damage to the device and/or to the accessories. Always observe the following safety information when using the device:

- Never disassemble the device. In the event of a fault, please contact your retailer.
- Do not expose this device to high temperatures and protect it from water and high humidity.
- Do not immerse the unit in water.
- Protect the device from severe shocks or excessive vibrations.
- For this device, only use accessories and spare parts that comply with the technical information.
- Use only the recommended batteries. Always replace weak or empty batteries with a new, complete set of batteries at full capacity. Do not use batteries from different brands or with different capacities. Remove the batteries from the unit if it has not been used for a long time.
- Rechargeable batteries are not recommended.

Risk of voltage damage

The manufacturer is not liable for voltage damage due to improperly inserted batteries.

Packing List

- CO2 Monitor Unit
- USB cable for Power (standard USB power adaptor plug required)
- User Manual

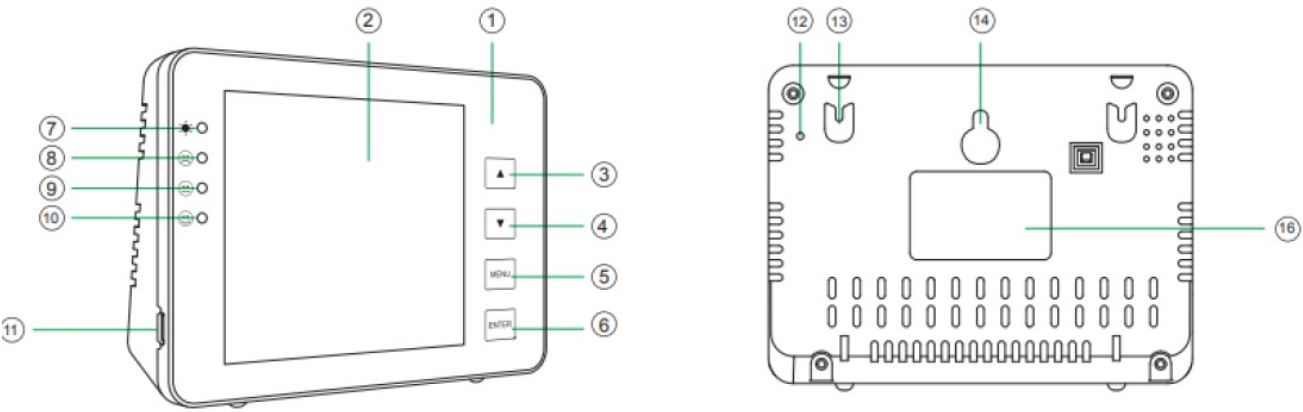
Warnings

- The provided USB cable can be ONLY used as power supply for this device.
- Do not disassemble this device or change internal wiring.
- Do not store or use this product in high temperature, high humidity, flammable, explosive or strong electromagnetic environment.
- Do not restore factory defaults too often, as it will cause program damage.
- Keep the device away from your face, as the exhaled carbon dioxide will affect its accuracy.

Features at a Glance

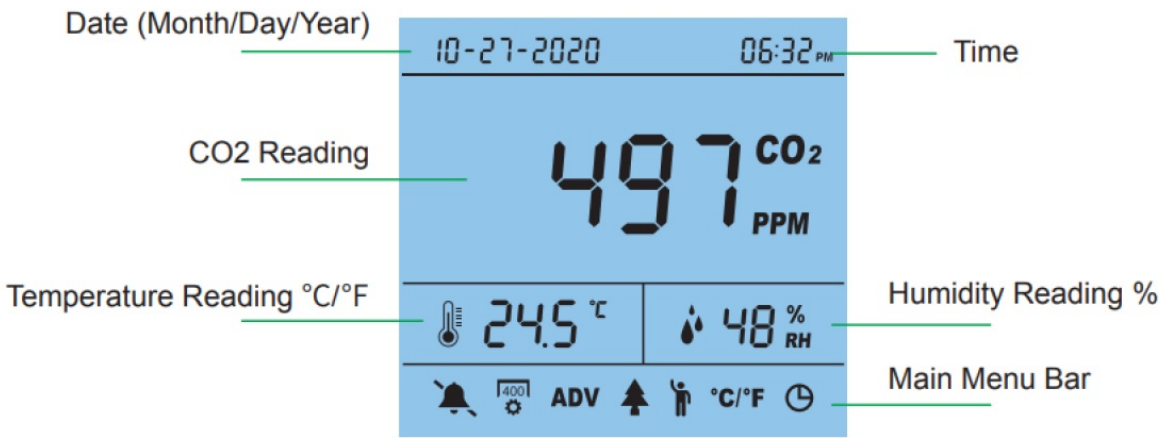
- Large Display
- Touch Button Operation
- 15° Bevel Design, Easy to Read
- Low Drift NDIR Sensor, Long Lifespan
- Audible and Visual Alarm
- Temperature, Humidity and CO2 Monitor, Date and Time Display Auto-Calibration and Manual Calibration
- Wall mount or desktop

Overview



①	Front Panel	⑨	Orange Condition Indicator
②	LCD	⑩	Green Condition Indicator
③	UP Button	⑪	USB Port
④	Down Button	⑫	Hole for Buzzer
⑤	Menu Button	⑬	Hole for Rope
⑥	Enter/OK Button	⑭	Hole for Screws
⑦	Battery Indicator	⑮	Label
⑧	Red Condition Indicator		

LCD Display

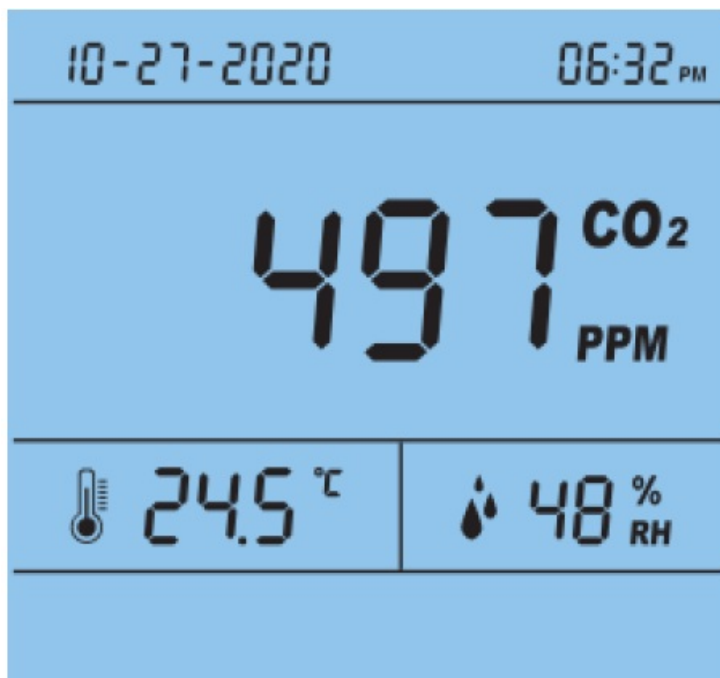


	Mute		Human Mode
	Audible Alarm	°C	Degree Celsius
	Manual Calibration	°F	Degree Fahrenheit
ADV	Alarm Point Setting		Time
	Plant Mode		

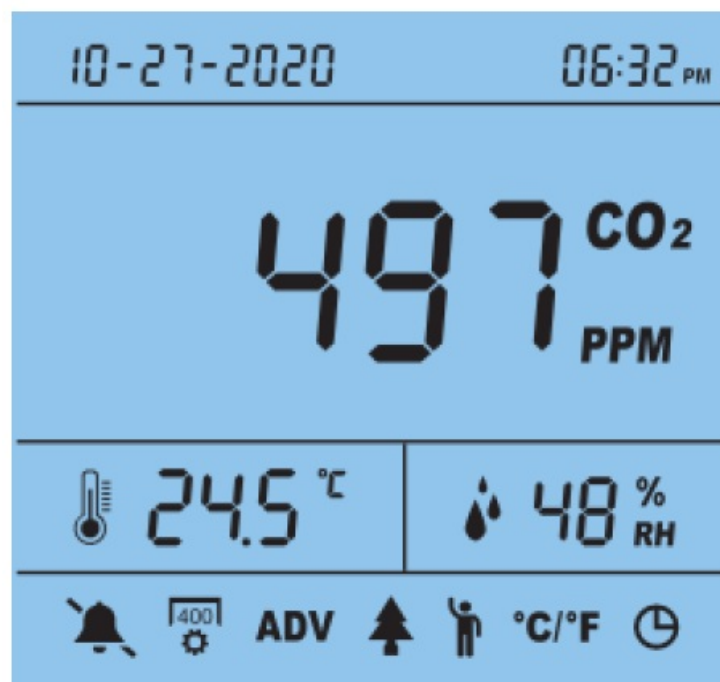
Restore Factory Defaults

In Detection Panel (See image 1), hold the ENTER button for four seconds until an audible beep is heard.

- (Image 1: Detection Panel)



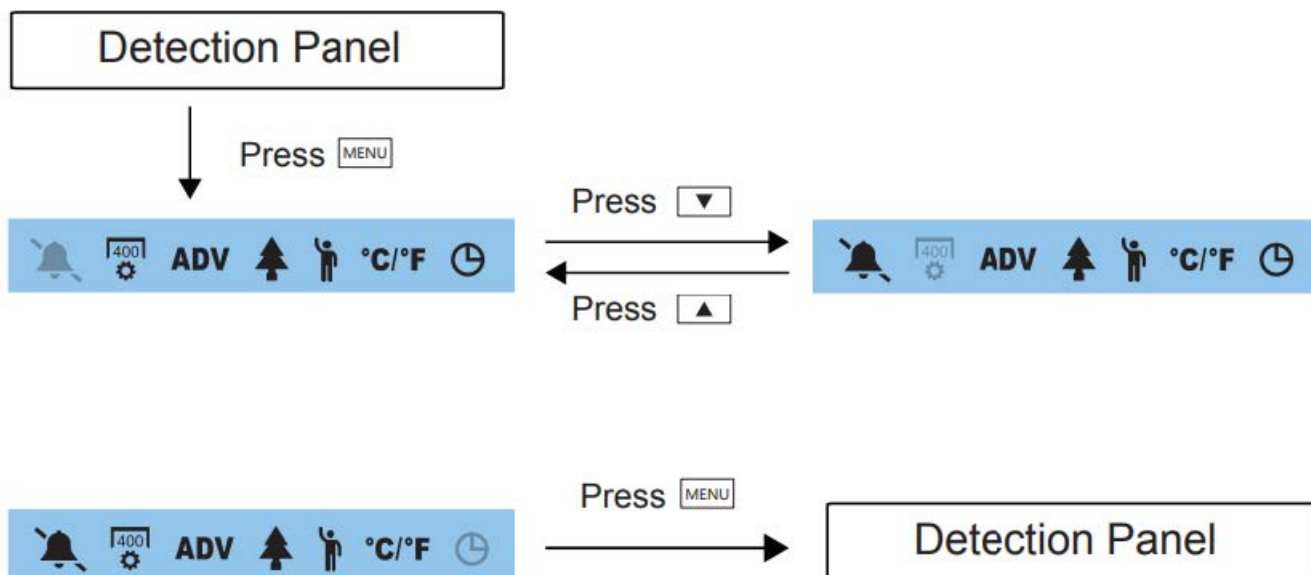
- (Image 2: Operation Panel)



Menu Bar


Press the MENU button once to activate the menu bar, press arrow buttons to cycle and switch function options (press MENU to switch each option in turn until exit).

Notice: if the device is not operated in 30 seconds, the menu bar will disappear, and the display will return to the normal state.



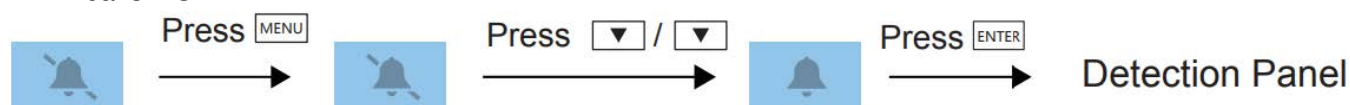
To set a particular function, press ENTER to enter this function when the icon is flashing, use arrow button to adjust the setting or figure, when it's done press ENTER to confirm and exit.

Alarm Buzzer

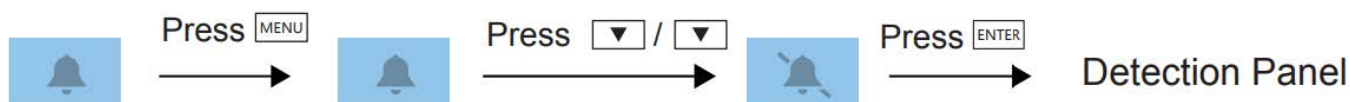
When it displays , an audible alarm will sound if the CO2 level exceeds a preset CO2 alarm value.





means MUTE.



or



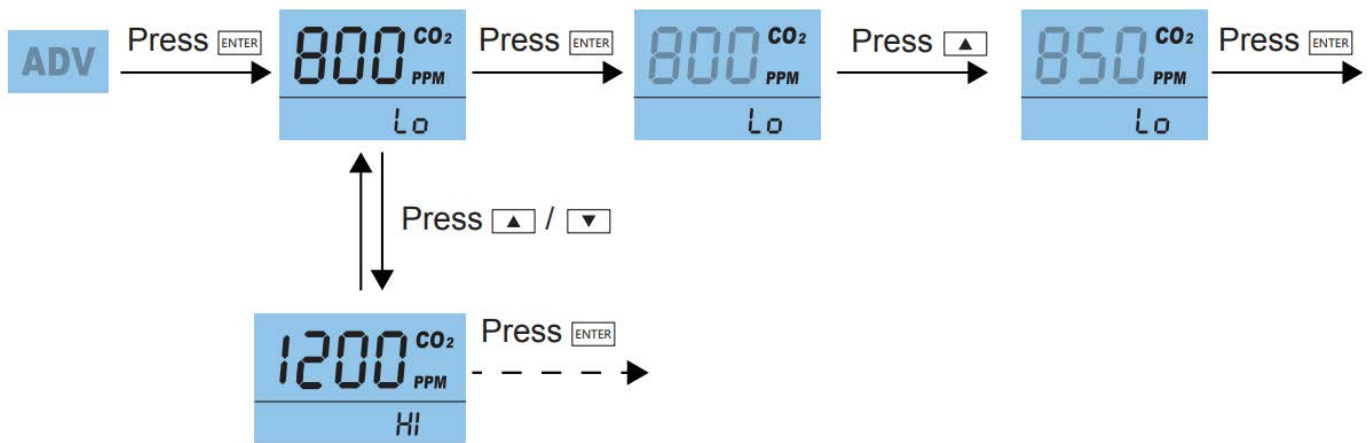
Plant Mode and Human Mode

When  or  flashes, press ENTER to choose and enter that mode, and it will skip to the next icon.



ADV-Alarm Value

Use this function to set high and low alarm values for Human Mode and Plant Mode Default alarm values are 800ppm and 1200ppm for both modes.



Alarm Indicator

In the Human mode, the GREEN light is on when the CO₂ reading is lower than the low alarm value, the YELLOW light is on when it is between the high and low alarm values, and the RED light is on when it is higher than the high alarm value.

In the Plant mode, the RED light is on when the CO₂ reading is lower than the low alarm value, the GREEN light is on when it is between the high and low values, and the YELLOW light is on when it is higher than the high value.

Temperature Unit

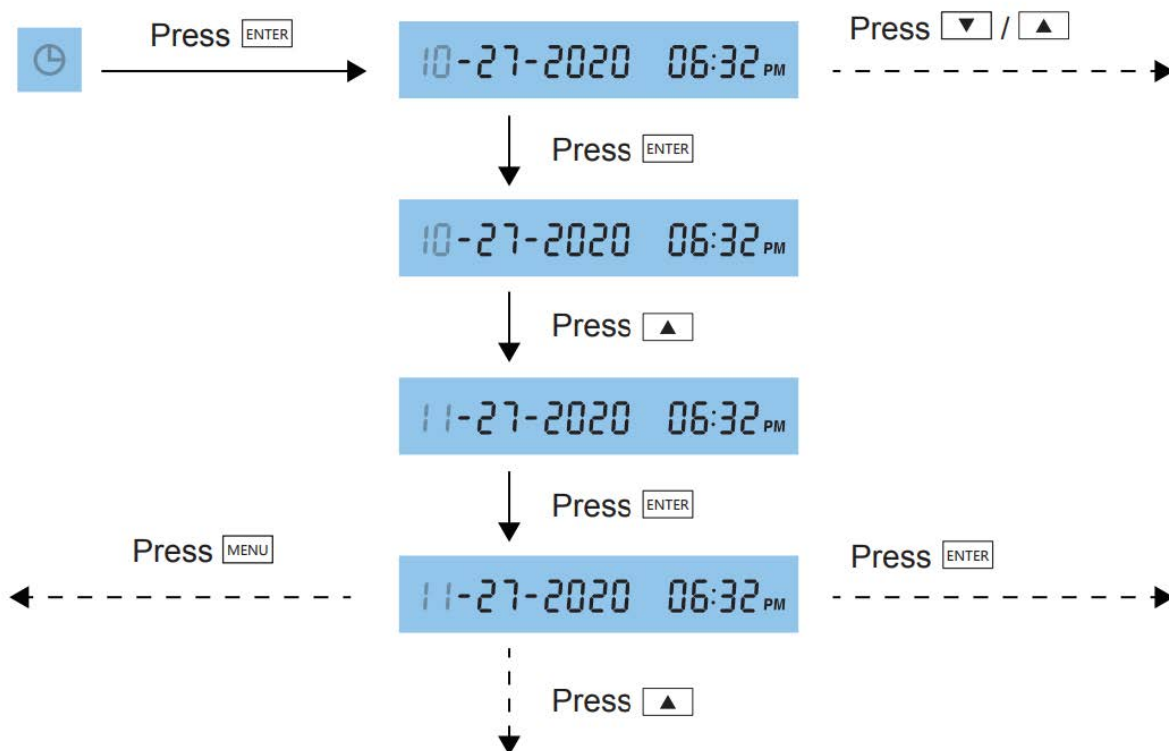
Use this function to choose between Celsius (°C) and Fahrenheit (°F) for the temperature unit display.



Time and Date

12-hour and 24-hour systems are both available for choice.

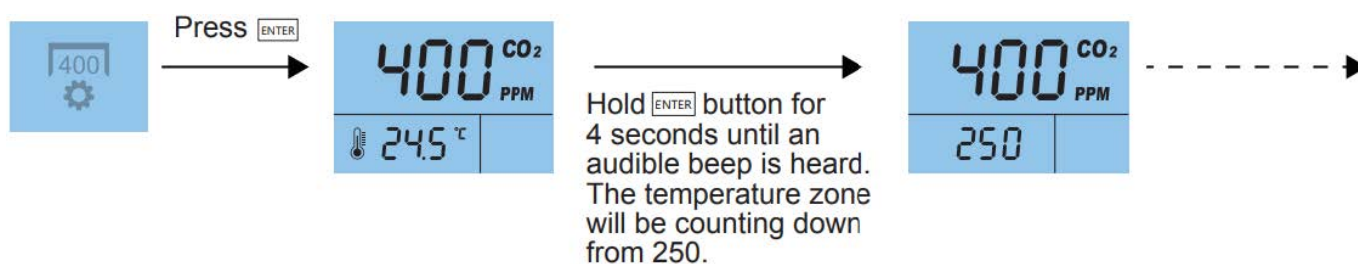
24-hour setting: when **AM** and **PM** flash at the same time, press **ENTER** to save the setting.



Calibration

Before calibration, run this device for at least 20 minutes with window open or in an outdoor environment with backup battery to reach an atmosphere with 400ppm CO₂.

Wait until the CO₂ reading is stable, then follow above steps for calibration. After calibration, leave it 10 minutes before normal use.



Specifications

- Typical test conditions: Ambient Temp: 23 ± 3°C, Humidity = 50%-70%, Altitude = 0-100 metres
- Operating Temperature 32°F – 122°F (0°C – 50°C)
- Storage Temperature 14°F – 140°F (-10°C – 60°C)
- Operating & storage Humidity 0-95% (non-condensing)

CO₂ Measurement

- Measuring range (0-5000)ppm
- Display resolution 1ppm (0-1000); 5ppm (1000-2000); 10ppm (>2000)
- Accuracy (0-3000)ppm: ± 50ppm ± 5% of reading. (>3000)ppm: ± 7% of reading

- Temperature compensation $\pm 0.2\%$ of reading per °C (reference of 25°C)
- Warm-up time <20 seconds

Temperature Measurement

- Operating temperature 32°F – 195°F (0°C ~90°C)
- Display resolution 0.1°F (0.1°C)
- Response time <20 minutes (63%)

Humidity Measurement

- Measuring range 5-95%
- Accuracy $\pm 5\%$
- Display resolution 1% Main interface display, 0.1% Max/Min display
- Operating Voltage DC(5 \pm 0.25)V
- Dimensions 120*90*35mm
- Weight 170g device only

Service

Please contact us for any questions regarding the product or claims, preferably by email.

ACCUR8

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ACCUR8 is a registered trademark of Tempcon Instrumentation Ltd

EC Declaration of Conformity

Tempcon Instrumentation Ltd has issued a declaration of conformity in accordance with applicable guidelines and corresponding standards. The full text of the EC declaration of conformity is available on request from the address above.

Disposal

Dispose of the packaging materials properly, according to their type, such as paper or cardboard. Contact your local waste-disposal service or environmental authority for information on the proper disposal.

Do not dispose of electronic devices in the household rubbish! Used electronic devices must be collected separately and recycled in an environmentally friendly manner.

Do not dispose of batteries and rechargeable batteries with the household waste. After they are used, the batteries can be returned to our point of sale or to a nearby location (for example, retailers or municipal collecting points).

Batteries and rechargeable batteries are marked with a symbol of a crossed-out dustbin and the chemical symbol of the pollutant. "Cd" stands for Cadmium, "Hg" stands for mercury and "Pb" stands for lead.

Document Version 1.0

Documents / Resources

<p>User Manual ACCUR8 CO2</p> <p>1. Introduction</p> <p>The ACCUR8 CO2 Monitor is a portable, battery-powered device designed to monitor and display CO2 levels in real-time. It is suitable for use in a wide range of environments, including homes, schools, and workplaces. The device features a large, high-contrast LCD screen that displays the current CO2 level, along with a range of other useful information, such as the battery level and the device's status.</p> <p>2. General Safety Instructions</p> <p>Read the user manual carefully before using the device. The device is not intended for use in explosive or flammable environments. Do not use the device near open flames or heat sources. The device is not waterproof and should not be submerged in water. Do not use the device if you are pregnant or have a medical condition that may be affected by CO2 levels. The device is not a medical device and should not be used for medical purposes. The device is not intended for use in areas with high humidity or high levels of dust or dirt. The device is not intended for use in areas with high levels of vibration. The device is not intended for use in areas with high levels of electromagnetic interference. The device is not intended for use in areas with high levels of radio frequency interference. The device is not intended for use in areas with high levels of magnetic interference. The device is not intended for use in areas with high levels of electrical interference. The device is not intended for use in areas with high levels of mechanical interference. The device is not intended for use in areas with high levels of chemical interference. The device is not intended for use in areas with high levels of biological interference. The device is not intended for use in areas with high levels of environmental interference. The device is not intended for use in areas with high levels of atmospheric interference. The device is not intended for use in areas with high levels of cosmic interference. The device is not intended for use in areas with high levels of gravitational interference. The device is not intended for use in areas with high levels of nuclear interference. The device is not intended for use in areas with high levels of solar interference. The device is not intended for use in areas with high levels of lunar interference. The device is not intended for use in areas with high levels of stellar interference. The device is not intended for use in areas with high levels of galactic interference. The device is not intended for use in areas with high levels of cosmic background radiation. The device is not intended for use in areas with high levels of dark matter. The device is not intended for use in areas with high levels of dark energy. The device is not intended for use in areas with high levels of quantum entanglement. The device is not intended for use in areas with high levels of quantum superposition. The device is not intended for use in areas with high levels of quantum tunneling. The device is not intended for use in areas with high levels of quantum entanglement. The device is not intended for use in areas with high levels of quantum superposition. The device is not intended for use in areas with high levels of quantum tunneling.</p>	<p>ACCUR8 CO2-6000 CO2 Monitor with Temperature and Humidity [pdf] User Manual</p> <p>CO2-6000 CO2 Monitor with Temperature and Humidity, CO2-6000, CO2 Monitor with Temperature and Humidity, CO2 Monitor, Monitor</p>
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