



CO2008 - Indoor Air Quality CO2, Temperature and Humidity Meter

User Manual



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PRODUCT REGISTRATION

PRODUCT INTRODUCTION

Excessive carbon dioxide concentration in an indoor environment may result in fatigue, loss of oxygen concentration or even cause health hazards.

Whereas in plant growing facilities, monitoring and controlling carbon dioxide level can help enhance growing efficiency. Perfect Prime CO2008 Indoor Air Quality (IAQ) - CO2 : Temperature and Humidity meter is designed specifically for these various health concerns and professional applications.

CO2008 is well suited for the following usage :

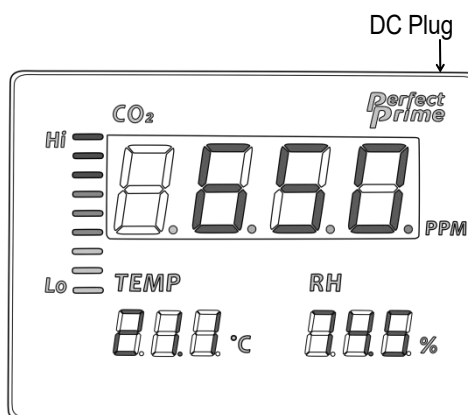
1. Monitoring air conditions on roads or houses,
2. Weather prediction and observation,
3. Monitoring CO2 concentration of indoor greenhouse,
4. Data logging for scientific analysis,
5. Measuring during experiment and etc.

PRODUCT PACKAGE

The product packing contains :

- CO2008 CO2 and Temperature / Thermometer Meter
- AC Power Adapter (100 - 240V AC Input / 9V DC Output)

OPERATING PREPARATION



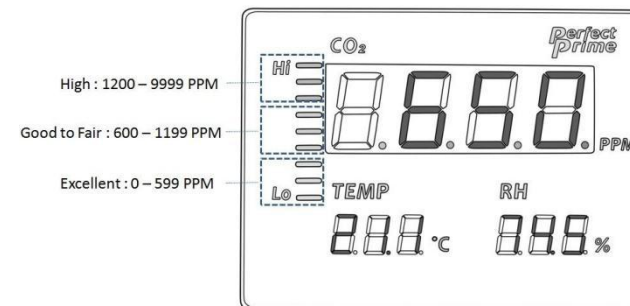
- Connect the DC output plug of AC adapter to the DC input socket of CO2008
- Plug the AC Power adapter to AC power source, CO2008 will turn on automatically with a short countdown displayed (around 20 seconds)
- CO2008 starts function and displays the measured CO2 / Temperature and Humidity values on the front LED

PRODUCT FEATURES AND FUNCTIONS

CO2 Concentration Effect (General Guideline – Reference only)

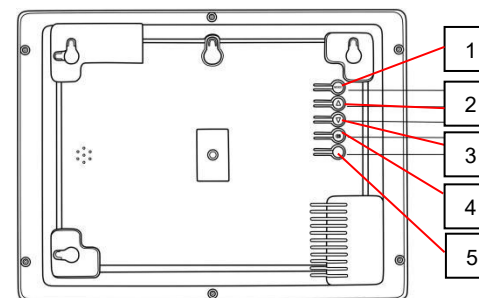
- 250 ~ 350 ppm – Under artificially controlled environment
- 350 ~ 450 ppm – Similar to natural outdoor air quality
- 450 - 1,000 ppm - Typical/good air quality environment
- 1,000 ~ 2000 ppm – Air flow is limited and may feel sleepy
- 2,000 ~ 5,000 ppm – Bad air quality, may cause headache, sleepiness, less concentration, faster heartbeat and mild nausea.
- > 5,000 ppm – May cause serious health issues, possibly lead to brain damage, coma and even casualties.

DISPLAY REPRESENTATION



OPERATING INSTRUCTIONS

There are 5 push buttons at the back of CO2008 and their functions are (Stating from the top button downward) :



- **Mode Key (1):** Set carbon dioxide concentration alarm level.
 1. Press MODE key to check the CO2 alarm level.
 2. If CO2 concentration is higher than alarm level, the buzzer coil sounds until CO2 conc. returns to normal.
- **Up/Down Button (2/3):** Increase/decrease CO2 alarm level.
 1. Press MODE key to display CO2 alarm level.
 2. Press up/down to increase/decrease the alarm level.
- **ON / OFF Button (4):** Press to turn ON/OFF buzzer alarm of CO2 warning.
- **°C and °F unit Button (5):** Press to switch the temperature display between Celsius or Fahrenheit unit.

Product Specifications

- **CO2 measurement range:** 400-9,000ppm
- **Precision:** 70ppm \pm 3% reading
- **Response time:** 2 minutes
- **CO2 Optimal operating condition:** 5°C ~ 30°C, 0-85% RH
- **Temperature measurement range:** 0-100°C
- **Resolution:** 0.10°C/°F
- **Accuracy:** \pm 0.30°C / \pm 0.6°F (10 ~ 55°F/50 ~ 131°F)
The rest is \pm 1.5°C
- **Humidity measurement range:** 0.1-99.9% RH
- **Resolution:** 0.1%
- **Precision:** \pm 3% (0-80°C)