KDF-CO2-AQ1

Mini 3 in 1 NDIR CO2 Desktop Monitor

General Introduction

Indoor Air Quality (IAQ) is a measure of the quality of air in interiors. Comfortable indoor environmental quality can make people feel better, more efficient and is good for your health. CO2 concentration is a key factor of good indoor air quality. People breath in oxygen and breath out CO2, nowadays people often close the windows to avoid noise and enjoy the improved living and working environment provided by air-conditioning systems, which may result in the indoor concentration of CO2 being higher than outdoor average. With elevated CO2 concentrations and poor ventilation, people may feel headaches, dull, drowsiness, loss of concentration and may also lead to high levels of dust, chemicals, and bacteria in the air.

NDIR SENSOR

Features

- Dual Beam NDIR (Non-Dispersive-Infrared) technology is being used to measure CO2 concentration and improve the long-term stability.
- The large LCD clearly displays CO2, temperature, Relative Humidity and real-time clock.
- 3-colour backlight displays indicate the status of current CO2 concentration.
- "HISTORY" with 3 emoticons indicate the status of CO2 records up to 24 hours.
- "ECO" saving power function darkens the LCD backlight (22:00pm to 6:00am).
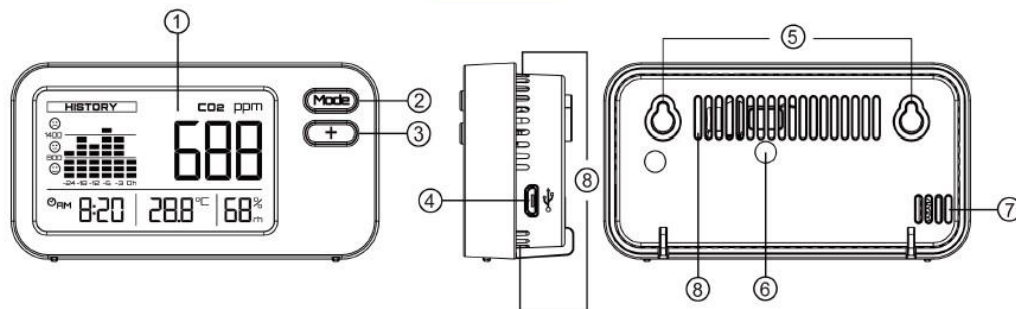
<800 ppm   800~1400 ppm   >1400 ppm

CO2 Specifications:	
Measurement Range	0–9, 999ppm
Accuracy	0–3,000ppm: ±100ppm or ±7% of reading, whichever is greater; over 3000ppm: ± 10%
Display Resolution	1ppm
Warm-Up Time	10 sec
Response Time	About 1min
Temperature Specification:	
Temperature Range	0°C–50°C
Accuracy	±1°C
Display Resolution	0.1°C
RH Specification:	
Measurement Range	0%–99% RH
Accuracy	±3%@25°C (20% RH–80%RH), other 5%
Display Resolution	1%RH
Operating Conditions:	
Humidity Range	0–95% RH non-condensing 0%–99%
Storage Conditions:	–20°C–60°C

5000 ppm
Time Weighted Average Exposure Limit <8 hours

General drowsiness. Adverse health effects expected. Complaints of stiffness and odours

Acceptable range below <1000 ppm

1000 ppm

Healthy

Normal outside air

Generally, 350 to 450 ppm

1. LCD Display
2. Mode key
3. Select key
4. Power Inlet (Micro USB Socket)
5. Screw position
6. Calibration gas Entry
7. Humidity Sensor
8. Ventilation slots

Dimensions: 105 x 56 x 33mm
Weight: 86 grams

One Set Includes: 1 x CO2 Monitor, 1 x USB Cable, 1 x User Manual