

IAQ meter



7798

Desktop Carbon Dioxide logger 7798

- ▲ ADVANCED CO2 LOGGER, YOUR BEST IAQ WATCHER
- ▲ UP TO 5333 POINTS MEMORY FOR EACH PARAMETER
- ▲ 15 DEGREE TILT ANGLE FOR EASY TO SEE AND READ
- ▲ ONE KEY TOUCH TO ACTIVATE THE LOGGING MODE
- ▲ REAL TIME CLOCK AND CALENDAR ARE DISPLAYED
- ▲ WARNING CARBON DIOXIDE LEVEL FROM 1000-5000PPM
- ▲ SUPER LARGE LCD DISPLAY CO2 VALUE (WITH GOOD, NORMAL, POOR AIR QUALITY INDICATOR), YEAR-MONTH-DATE, HOUR-MINUTE, AIR TEMP. & RELATIVE HUMIDITY
- ▲ MAX. /MIN. RECALL FUNCTION
- ▲ TEMPERATURE UNIT IS SWITCHABLE
- ▲ REAL TIME CLOCK IS ADJUSTABLE
- ▲ NDIR (NON-DISPERSIVE INFRARED) WAVEGUIDE TECH.
- ▲ CO2 AUTOMATIC BACKGROUND CALIBRATION, ABC
- ▲ LONG TIME DRIFT COMPENSATION
- ▲ BRIGHT LED VISIBLE INDICATES POWER IS ON
- ▲ AUDIBLE ALARM WARNS CO2 AIR QUALITY IS POOR
- ▲ MONITORING RESIDENTIAL, COMMERCIAL AND HOME AIR QUALITY
- ▲ EASY TO CONNECT WITH PC FOR DATA DOWNLOAD

CO2 LEVELS AND GUIDELINES

Non-Enforced Reference levels

NIOSH recommendations

250-350 ppm:

Normal outdoor ambient concentrations

600 ppm:

Minimal air quality complaints

600-1000 ppm:

Less clearly interpreted

1000 ppm:

Indicates inadequate ventilation; complaints such as headaches, fatigue and eye/throat irritation will be more widespread. 1000 ppm should be used as an upper limit for indoor levels.

EPA Taiwan: 600ppm and 1000ppm

Type 1

indoor areas such as department stores, theaters, restaurants, libraries, the acceptable CO₂ concentration of 8 hours average is 1000ppm.

Type 2

indoor areas with special requirements of good air quality such as schools, hospitals, day care centers, the suggested CO₂ level is 600ppm.

Regulatory exposure limit

ASHRAE Standard 62-1989: 1000ppm

CO₂ concentration in occupied building should not exceed 1000ppm.

Building bulletin 101 (BB101): 1500ppm

UK standards for schools say that CO₂ at averaged over the whole day (i.e. 9am to 3.30pm) should not exceed 1500ppm.

OSHA: 5000ppm

Time weighted average over five 8-hour work days should not exceed 5000ppm.

Germany, Japan, Australia, UK...: 5000ppm

8 hours weighted average in occupational exposure limit is 5000ppm.

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Measuring range

CO2 0~9999 ppm, (2001~9999 ppm out of scale range)

Temperature -10~60°C (14~140°F)

Relative Humidity 0.1%~99.9%RH

Resolution 1ppm, 0.1°C/°F, 0.1%RH

Accuracy

CO2 ±50ppm±5% of reading (0~2000ppm)

Others range accuracy are not specified

Temperature ±0.6°C/±0.9°F

Relative Humidity ±3%RH (at 25°C, 10~90%RH)

±5%RH (at 25°C, others)

Warm-up time 30 seconds

Response time

CO2 <2 minutes (90% step change)

Tair <2 mins (90% step change)

RH <10 minutes (90% step change)

Sample point 15999 points (5333points for each parameter)

Sampling rate 1sec to 04 hour 59 mins 59 sec.

LCD size (mm, HxW) 60x82

RELAY (1A 30VDC/0.5A 125VAC) NO

Operating condition 0~50°C, 5~80% RH (avoid condensation)

Storage condition -20~ 50°C, 5~90%RH (avoid condensation)

Power supply 5VDC adaptor (±10%), ≥500mA

Meter size 120 x 80 mm (Diameter x Depth)

Weight 200g

Standard package Meter, manual, 5V universal adaptor, plain box, software CD & cable