



NEW



7798



## Desktop Carbon Dioxide Logger 7798

- ▲ Advanced CO2 logger, your best IAQ watcher
- ▲ Up to 15999 points auto logging memory space
- ▲ 15 degree tilt angle for easy to see and read
- ▲ One key touch to activate the logging mode
- ▲ Display real time clock and date
- ▲ Warning carbon dioxide level from 1000-5000ppm
- ▲ Super large LCD displays 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 technology
- ▲ CO2 automatic background calibration, ABC
- ▲ Long time drift compensation
- ▲ Visible bright LED 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

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### 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.

#### 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
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#### Accuracy

CO2	±50ppm±5% of reading( 0~2000ppm) Other ranges 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
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#### 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)
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Sampling rate	1sec to 04 hour 59 mins 59 sec.
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LCD size (mm, HxW)	60x82
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RELAY (1A 30VDC/0.5A 125VAC)	NO
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Operating condition	0~50°C, 5~80% RH (avoid condensation)
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Storage condition	-20~ 50°C, 5~90%RH (avoid condensation)
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Power supply	5VDC adaptor (±10%), ≥500mA
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Meter size	120 x 80 mm (Diameter x Depth)
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Weight	200g
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Standard package	Meter, manual, 5V universal adaptor, plain box, software CD & cable
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