INDOOR AIR QUALITY MONITOR



CO₂ LEVELS AND GUIDELINES

Non-Enforced Reference levels

NIOSH recommendations

Normal outdoor ambient concentrations

Minimal air quality complaints

600-1000 ppm:

Less clearly interpreted

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 avarge 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.

Ordering Code

VZ7787AZ, 7787 meter VZ7788AZ, 7788 meter VZ7798AZ, 7798 meter

*Available for EB project

Desktop Carbon Dioxide Monitor w/logging:7798 w/ relay:7788 w/o relay:7787

- ■Large LCD displays CO₂ value (with good,normal,poor air quality indicator), year-month-date, hour-minute, air temp. & relative humidity
- ■15 degree tilt to provide easy see and read angle
- ■Display real time clock and date
- ■NDIR (non-dispersive infrared) waveguide technology
- ■CO₂ automatic background calibration(called ABC) for long time drift compensation
- ■7798:Up to 15999 points auto logging memory space 7788:CO2 relay to control ventilation















Model	7798	7788	7787	
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			
<u>Accuracy</u>				
CO2	±50ppm±5% of reading(0~2000ppm)			
	Other range is 10% of reading			
Temperature	±0.6 ^o C/±0.9 ^o F			
Relative Humidity	<u>+</u> 3%RH (at 2	25°C, 10~90%RH)	<u>+</u> 5%RH (at 25°C, 20~90%RH)	
	<u>+</u> 5%RH (a	t 25 ^o C , others)	<u>+</u> 7%RH (at 25 ⁰ C , others)	
Warm-up time	30 seconds			
Response time				
CO2	<2 minutes (90% step change)			
Tair	<2 mins (90% step change)			

Sample point	(5333points for each para	meter) NO	NO	
Sampling rate	1sec to 04 hour 59 mins 59 sec.	NO	NO	
LCD size (mm, HxW)		60x82		
RELAY(1A 30VDC/0.5A 125VA	O) NO	YES	NO	
Operating condition	0~50 ⁰ C , 5	~80% RH (avoid	condensation)	
Storage condition -20~ 50 OC,5~90%RH(avoid condensation)				
Power supply	5VDC adaptor (<u>+</u> 10%), >=500mA			
Meter size	120 x 80 mm (Diameter x Depth)			
Weight	200g			

15999 points

<10 minutes (90% step change)

Meter, manual,5V universal adaptor, plain box,

software CD & cable (7798 only)

Optional

RH



Standard package

STEREO TYPE RELAY OUTPUT P/N: VW38819A A CONNECTION WIRE TO USE WITH # 7788 RELAY OUTPUT

