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

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



PC Link









Buzzer









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			
Accuracy				
CO2	<u>+</u> 50ppm <u>+</u> 5% of reading(0~2000ppm)			
	Other range is 10% of reading			
Temperature	<u>+</u> 0.6 ^o C/ <u>+</u> 0.9 ^o F			
Relative Humidity	<u>+</u> 3%RH (at 2	5°C, 10~90%RH)	<u>+</u> 5%RH (at 25°C, 20~90%RH)	
	<u>+</u> 5%RH (a)	t 25 ⁰ 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)			
RH	<10 minutes (90% step change)			
Sample point	15999 points (5333points for each para	NO 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 ⁰ C,5~90%RH(avoid condensation)			
Power supply	5VDC adaptor (<u>+</u> 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 (7798 only)		

Optional



STEREO TYPE RELAY OUTPUT A CONNECTION WIRE TO USE WITH # 7788 RELAY OUTPUT

