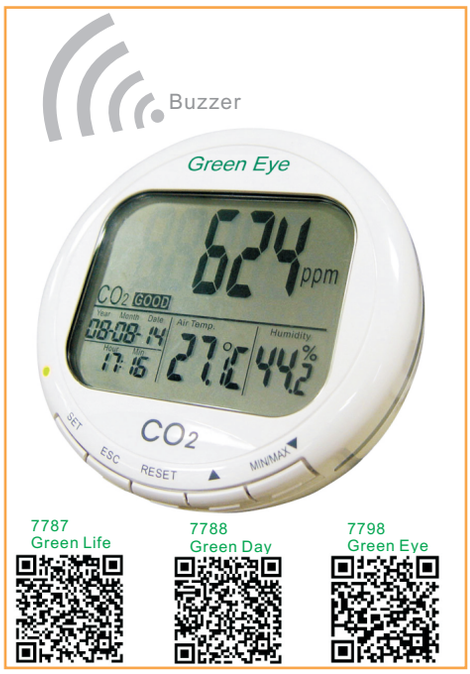
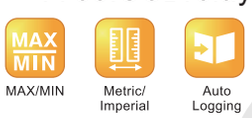


Desktop Carbon Dioxide Monitor w/ logging:7798 w/ relay:7788 w/o relay:7787

- ■Large LCD displays CO_2 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
- ■CO_2 automatic background calibration(called ABC) for long time drift compensation
- ■7798:Up to 15999 points auto logging memory space
  7788:CO_2 relay to control ventilation







CO_2 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 CO_2 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 CO_2 level is 600ppm.

Regulatory exposure limit

ASHRAE Standard 62-1989: 1000ppm
CO_2 concentration in occupied building should not exceed 1000ppm.

Building bulletin 101 (BB101): 1500ppm
UK standards for schools say that CO_2 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.

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	±50ppm±5% of reading(0~2000ppm) Other range is 10% of reading		
Temperature	±0.6°C/±0.9°F		
Relative Humidity	±3%RH (at 25°C, 10~90%RH) ±5%RH (at 25°C , others)		**±5%RH** (at 25°C, 20~90%RH) **±7%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)	NO	NO
Sampling rate	1sec to 04 hour 59 mins 59 sec.	NO	NO
LCD size (mm, HxW)	60x82		
RELAY(1A 30VDC/0.5A 125VAC)	NO	YES	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 (7798 only)		

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

Available for EB project

Optional



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



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