INDOOR AIR QUALITY(IAQ) MONITOR



PM2.5, CO_2, HUMIDITY, TEMP. MONITOR/DATALOGGER 7710

- Large LED displays PM2.5, Health index, CO_2, humidity and temperature.
- 12000 times auto logging. USB2.0 plug and play. No need to operate through specific software.
- Wall mount display with 3-color light bar to provide PM2.5/CO_2 hazardous level indicator from far distance
- High accuracy laser optical PM2.5 sensor
- NDIR (non-dispersive infrared) waveguide CO_2 tech
- CO_2 **a**utomatic **b**ackground **c**alibration(called ABC) for long time drift compensation



Best helper to increase your rating while applying **LEED** green building certificate



Table 2. Points for Continuous Indoor Air Monitoring

Parameter	Data requirement	Minimum IAQ limit	Enhanced IAQ limit	Points*
Carbon dioxide (CO2)	95th percentile value	1000 ppm	800 ppm	3 (minimum IAQ limit), 4 (enhanced IAQ limit)
PM2.5	Daily average	15 µg/m3	12 µg/m3	3 (minimum IAQ limit), 4 (enhanced IAQ limit)

By improving the CO_2 and PM2.5 concentration indoor and providing continuous monitoring record, at most 8 points is added to your LEED rating.

The **health index** in this product follows **USA EPA** guidelines
Long term PM2.5 value brings higher impact to human health. The health index here provides you a quick indication to know the average PM2.5 level of past 24 hours.

Health index level	AQI category	Breakpoints (ug/m^3, 24H average)
1	Good	0.0~12.0
2	Moderate	12.1~35.4
3	Unhealthy for sensitive groups	35.5~55.4
4	Unhealthy	55.5~150.4
5	Very Unhealthy	150.5~250.4
6	Hazardous	250.5~350.4
7	Hazardous	350.5~500

Ordering Code
VZ7710AZ, 7710 PM2.5/CO_2 Logger
VB17729A, 5V USB adaptor with 4 plugs

Available for EB project

Model	7710
Measuring range	
PM2.5	0~999 ug/m^3
CO_2	0~9999 ppm,
Temperature	-10.0~60.0°C (14~140°F)
Humidity	0.1~99.9% RH
Resolution	1ug/m^3,1ppm, 0.1°C/°F, 0.1%RH
Accuracy	
PM2.5	0-100: +/-10 ug/m^3;101~999:+/-10% rdg.
CO_2	±40ppm±3% of reading(400~2000ppm), Other range is 10% of reading
Temperature	±0.6°C/±0.9°F
Humidity	±5%RH (at 25°C, 10~90%RH) ; ±7%RH (at 25°C , other range)
Warm-up time	10 seconds
Response time	
PM2.5	<30 seconds(90% step change)
CO_2	<30 seconds (63% step change)
Tair	<2 mins (90% step change)
Humidity	<20 minutes (90% step change)
Auto Logging	12000 times records
Operating condition	0~50°C , 0~95% RH (avoid condensation)
Storage condition	-20~ 50°C,0~95%RH(avoid condensation)
Power supply	5VDC USB type C port
Power consumption	<500mA
Meter size (LxWxH,mm)	257 x 168 x 45.5 mm (L x W x T)
IP rating	IP20
Weight	610g
Standard package	Meter, manual, Type C cable, Hanging & filtering accessories.
Optional accessory	100~240V to 5V@0.6A adaptor with 4 plugs (US.EU.UK. AU)

Areas of application: Widely used in the office building, school, exhibition hall, shopping mall, meeting room, fitness center, restaurant and other public places where **energy bill**, personal **comfort** and **healthy** are important.

