

# INDOOR AIR QUALITY(IAQ) MONITOR

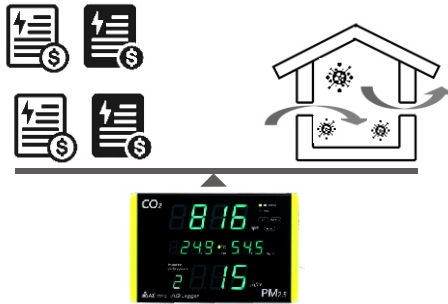
## PM2.5, CO2, HUMIDITY, TEMPERATURE MONITOR/DATALOGGER 7710



- Large LED displays PM2.5, Health index, CO2, 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/CO2 hazardous level indicator from far distance
- High accuracy laser optical PM2.5 sensor
- NDIR (non-dispersive infrared) waveguide CO2 technology
- CO2 automatic background calibration (called ABC) for long time drift compensation



Best helper to balance **energy bill** and **IAQ**



Choose **one** or **multiple** parameter as your reference indicator and use it to optimize. For example, if 800ppm CO2 or 12ug/m<sup>3</sup> PM2.5 is the guideline, you can adjust the ventilation to meet this target instead of adjusting the ventilation too high to waste energy.

The **health index** here is defined by **USA EPA**.

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 <sup>3</sup> , 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/CO2 Logger  
**VB17729A**, 5V USB adaptor with 4 plugs

Model	7710
<b>Measuring range</b>	
PM2.5	0~999 ug/m <sup>3</sup>
CO2	0~9999 ppm,
Temperature	-10.0~60.0°C (14~140°F)
Humidity	0.1~99.9% RH
<b>Resolution</b>	1ug/m <sup>3</sup> , 1ppm, 0.1°C/°F, 0.1%RH
<b>Accuracy</b>	
PM2.5	0-100: +/-10 ug/m <sup>3</sup> ; 101~999: +/-10% rdg.
CO2	+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)
<b>Warm-up time</b>	10 seconds
<b>Response time</b>	
PM2.5	<30 seconds(90% step change)
CO2	<30 seconds (63% step change)
Tair	<2 mins (90% step change)
Humidity	<20 minutes (90% step change)
<b>Auto Logging</b>	12000 times records
<b>Operating condition</b>	0~50°C, 0~95% RH (avoid condensation)
<b>Storage condition</b>	-20~ 50°C, 0~95%RH(avoid condensation)
<b>Power supply</b>	5VDC USB type C port
<b>Power consumption</b>	<500mA
<b>Meter size (LxWxH,mm)</b>	257 x 168 x 45.5 mm (L x W x T)
<b>IP rating</b>	IP20
<b>Weight</b>	610g
<b>Standard package</b>	Meter, manual, Type C cable, Hanging & filtering accessories.
<b>Optional accessory</b>	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.

