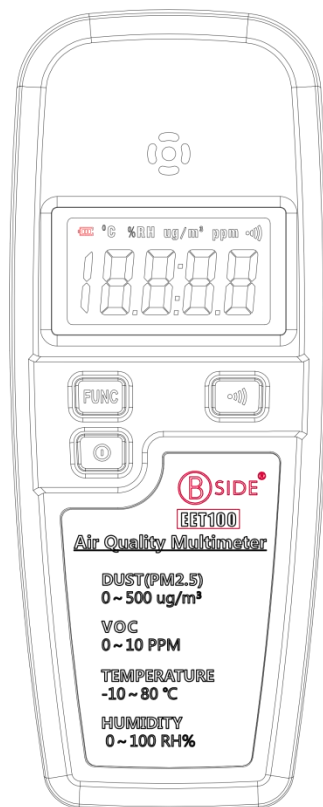# Air Quality Multimeter

EET100   User Manual

DUST(PM2.5) & VOC & Temperature & Humidity

1. Function

EET100   integrated high sensitivity Dust sensor, VOC sensor, and Temperature & Humidity sensors. That makes the possibility to measure   PM2.5, VOC, temperature and humidity in one meter. It is multifunction, high accuracy, fast response, easy to carry, easy to use and etc. It is suitable for the air quality measurement of daily life, work and learning environment, provide the basis for air quality assessment.

1: VOC Sensor
2: Dust sensor air hole
3: USB port for charging
4: LCD screen
5: Function button
6: Alarm enable button

2. Specification

Dust / PM2.5:
➢ Range: 0-500 ug/m³
➢ Accuracy: ±10%
➢ Sampling cycle: 1second

VOC:
➢ Range: 0-10 ppm
➢ Accuracy: ±10%
➢ Sampling cycle: 1Second

(The VOC sensor should be preheated for 5 minutes)

Temperature:
➢ Range: -10-80 ℃
➢ Accuracy: ±0.3 ℃
➢ Sampling cycle: 2 Second

Humidity:
➢ Range: 0-100 RH%
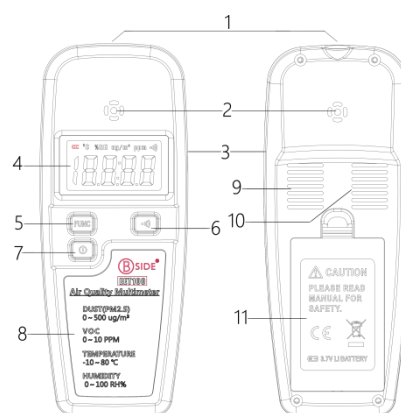➢ Accuracy: ±3 RH%
➢ Sampling cycle: 2 Second

Power:
➢ 3.7V Li-Battery: BL-5C
➢ Micro USB Supply

Battery Life:
➢ DUST/PM2.5 mode: 35 Hours
➢ VOC mode: 8 Hours
➢Temperature & Humidity mode: 35 Hours

3. Structure

7: Power On/OFF button
8: Panel
9: Buzzer
10: Temperature & Humidity sensor
11: Battery cover

4. Operation Instruction

Power On/Power Off:

✧ Press the red ON/OFF button and hold 2 seconds till the LCD screen shows on for Power ON.

✧ Press the red ON/OFF button and hold 2 seconds till the LCD screen shows off for Power OFF.

Mode selection:

✧ Press the button "FUNC" to select different mode

✧ If LCD shows "ug/m³" icon, that means current mode is Dust/PM2.5 measurement

✧ If LCD shows "ppm" icon, that means current mode is VOC measurement

✧ If LCD shows "℃" icon, that means current mode is Temperature measurement

✧ If LCD shows "RH%" icon, that means current mode is Humidity measurement

Alarm :

✧ Press the button "◁))" will enable or disable alarm

✧ In DUST/PM2.5 mode, the alarm will be triggered if the value is over 75 ug/m³

✧ In VOC mode, the alarm will be triggered if the value is over 0.500 ppm

Over Range:

✧ The LCD will show "□HI□" if the current measure value is higher than upper the limit of this meter

✧ The LCD will show "□Lo□" if the current measure value is lower than the lower limit of this meter

Charging:

✧ When the battery is running down, the battery icon will flash and show as "▭", please change a full battery or use a cable to charge it through the micro USB port.

5. Notice

● In VOC mode, the sensor need to be heated up to 60 ℃, please keep it away from your skin in order to avoid scald.

● The VOC sensor should be heated by itself about 5 minutes, so in the first 5 minutes the reading is not accurate.

● There is a relative mode in VOC mode, press and hold the alarm button "◁))" for 3 seconds, the LCD reading will be set to 0.000 ppm, then you can move the meter to a higher VOC environment, the LCD reading will show the differential value.

● For save power, please power it off when you don't use it

● Please keep dry and clean.

6. Common sense of living environment

6.1. DUST/PM2.5 and air quality rating (24 hours average)

Class 1   0~35ug/m³   Great

Class 2   35~75ug/m³   Good

Class 3   75~115ug/m³   Slight pollution

Class 4   115~150ug/m³   Moderate pollution

Class 5   150~250ug/m³   Heavy pollution

Class 6   250~500ug/m³   Serious pollution

6.2. VOC and air quality rating (24 hours average)

Class 1   0.000~0.050ppm   Great

Class 2   0.050~0.120ppm   Good

Class 3   0.120~0.300ppm   Slight pollution

Class 4   0.300~0.500ppm   Moderate pollution

Class 5   0.500~0.800ppm   Heavy pollution

Class 6   over 0.800ppm   Serious pollution

Note: These are not official certification, just for reference only!

7. Application

A. Working and Living air quality testing

B. House decoration air quality testing

C. Alcohol test (for drunk driving)

D. Sewer Tunnels test for safety working

E. Gas station leak detection

F. Factory air quality testing

G. Smoking test