SMART SENSOR

Wall mount sound level Meter

User Operation Manual

Sound Level AR884A

58.0 dB

SOUND LEVEL PANEL   MAX MIN dBC dBA
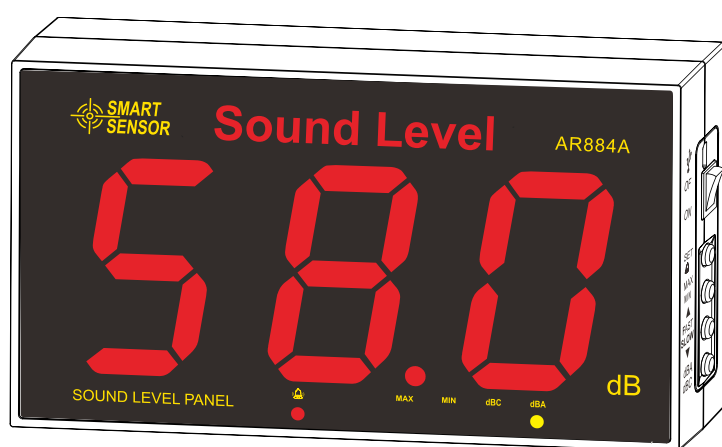
1. Application range

Before you use this product, please go through this user manual carefully, to get the maximum performance and work in long life. This sound level meter can be apply to measure the noise level at different area, for example, in the office, home, music room, karaoke room, shopping mall etc.

2. Specification

a) Measure range: 30-130dBA, 35-130dBC.
b) Frequency range: 31.5Hz to 8.5KHz.
c) Accuracy: +/-1.5dB (refer to sound calibration frequency 94dB@1KHz)
d) Frequency Weighting: A or C weighting.
e) Digital Display: 3 Large LED digital display
f) Resolution: 0.1dB <100dB, 1dB >100dB.
g) Display Mode, Fast and Slow selectable.
h) Microphone type: Dia. 6mm ECM type
I) Alarm Mode: Built in alarm buzzer.
j) Operation voltage: USB DC 5V 1A
k) Operation temperature and humidity range: 0-40 °C, 10-80% RH.
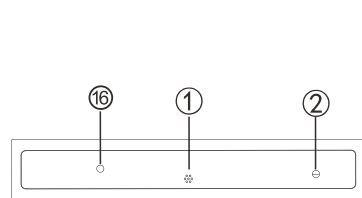l) Storage temperature and humidity range: 0-60 °C, 10-70%RH.

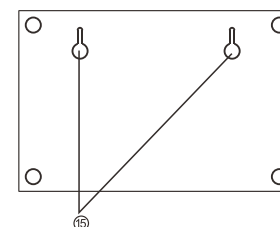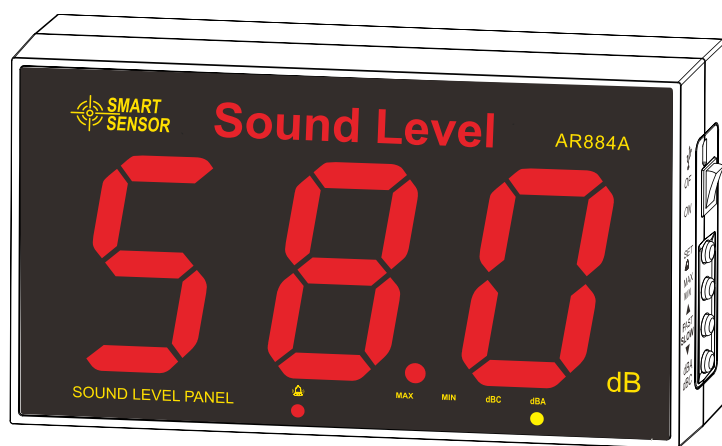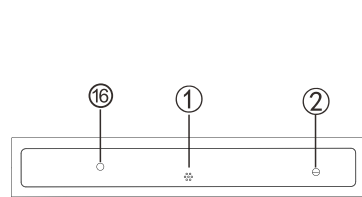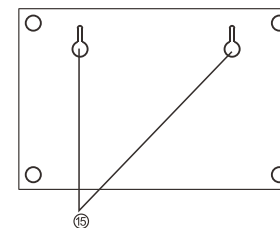# 3.Outlook display

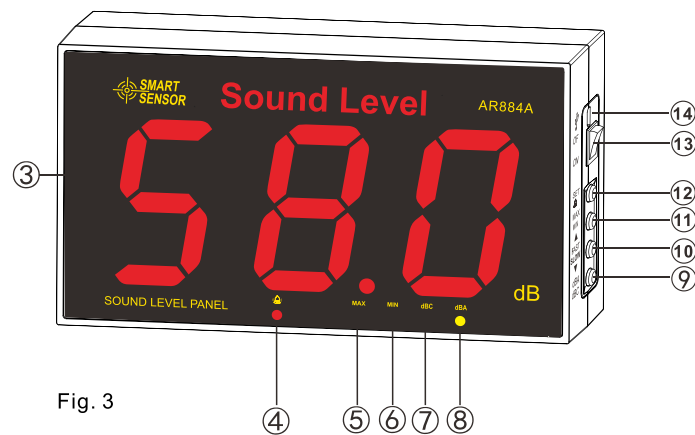Fig. 1 (side view)   Fig. 2 (back view)

Fig. 3

1) ECM microphone
2) Calibration hole
3) Noise Level Display Area
4) Alarm on / off indicator
5) MAX: Maximum sound pressure level indicator.
6) MIN: Minimum sound pressure level indicator
7) Frequency Weighting C indicator(simulated mechanical noise)
8) Frequency Weighting A indicator (simulate human ear curve)
9) Frequency weighting (A/C) selection key
10) Response time (FAST/SLOW/▼) selection
a) FAST: the response time is 125mS, most case select this mode.
b) SLOW: the response time is 1S, it will take average value and display
   more stable and easy reading.
11) MAX/MIN / ▲ : minimum and maximum SPL level selection key,
    alarm sound increase (▲) key/
12) SET: Alarm setup key.
13) Power ON/Off switch
14) External Power input hole: for USB DC 5V 1A.
15) Wall Mount Holes.
16) Buzzer hole.

4. OPERATION PROCEDURE

1) Plug in the 5V 1A AC/DC adapter, turn the POWER ROCKER
   SWITCH to ON position.
2) The default setting is Frequency Weighting A(dBA) dBA led on)
   alarm on (alarm led on).
3) Depress "SET" key once to turn the alarm mode on /off, alarm on,
   alarm led light up, alarm off, led off.
4) Depress "SET" key more than two seconds go to alarm setup
   mode, that moment all digital flashing, then depress "MAX/MIN/▲
   "key or "FAST/SLOW/ ▼ " key to adjust the alarm sound level to
   your desired value, then depress "SET" key more than two
   seconds to store the value and back to normal measurement
   mode. Flashing stop.
5) Depress "MAX/MIN/▲" key can select the maximum measured
   value or minimum measured value in sequential, the related led
   will turn on.
6) Depress "dBA/dBC" key can select the frequency Weighting A or C
   in sequential, related led turn on
7) Depress " FAST/SLOW/▼" key can selected fast response or slow
   response in sequential.
8) When alarm is set to "ON" and the real time measurement is reach
   the alarm level, the buzzer will sound on for three seconds, that
   moment led keep flashing & hold the value for 3 seconds then back
   to normal mode.

5. IMPORTANT NOTICE

1. Do not operate the unit at high temperature and high humidity
   environment.
2. Pease make sure the environment noise level must be lower than
   the measured subject's sound level.
3. Operation environmental condition:
   Below 2000 meter in Height, Humidity <80%RH, Temperature from
   0 to 40 $^\circ$C. indoor use only.

Version code: 6-884A-0116-00   C E