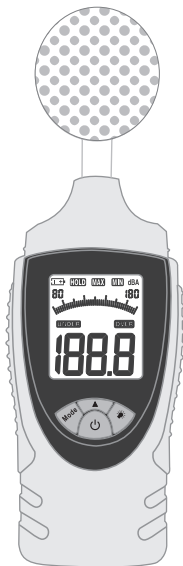


# Pocket size sound level meter

ST8080

## Instruction Manual



Please read this instruction manual thoroughly and carefully before put it into use and Keep this manual for later reference.

### 1. Safety

To make sure the instrument can be used for it's longest life , only operate the instrument properly, for its intended purpose and within the parameters specified in the technical data.


#### 1.1 Operation Condition

- \* Altitude : <2000 meters
- \* Relative Humidity: <90%RH
- \* Temperature : -10-40°C;(14 to 104°F)

#### 1.2 Maintenance of the instruments

- \* Send the instrument to the professionals for repair or maintenance.
- \* Keep it away from dust and corrosive liquid.

#### 1.3 Safety Mark

 The instrument is protected by double or reinforced insulation,regulated parts are required for repair.

 The instrument meets the standard of EMC

### 2. Specification

- Frequency : 31.5Hz- 4KHZ
- Range:40~130dB (40~80dB, 50~90dB, 60~100dB, 80~120dB, 90~130dB)
- Frequency Weighting : A
- Microphone : 1/2 electret condenser microphone
- Display: LCD


- Resolution:0.1dB
- Sampling rate:0.5sec
- Time weighting: Fast (125ms)
- Accuracy:  $\pm 2$ dB (At 94dB,1KH)
- Over range indication : "OVER"、"UNDER"
- Auto off : 10 minutes without operation
- Power Supply : 3\*AAA, LR03 AM4 (continuously working for 6h )
- Operation temperature : -10~40 °C (14~104°F)
- Operation Humidity: 10~90%RH
- Storage temperature: -20~60 °C (-4~140°F)
- Size:25mm\*170mm\*55mm
- Weight:165g (batteries include)
- Accessories : Instruction manual, 3\*AAA batteries, wind screen .

### 3. Description and Function

#### 3.1 Wind screen , 1/2 1/2 electret condenser microphone

Cover the microphone with the wind screen at the condition that the air speed exceeds 10m/s.


#### 3.2 Max,Min value and hold

Press "" to hold the current value, and display the Max and Min value since the instrument been switched on in turn, press it again , back to the measuring mode .

#### 3.3 Power button

Switch the instrument on or off

#### 3.4 Range selection

When "UNDER" or "OVER" displayed on the screen, please select  more appropriate range from : 40~80dB, 50~90dB, 60~100dB, 80~120dB, 90~130dB

#### 3.5 Back light button

Switch the back light on or off

#### 3.6 LCD display

Bar graph :1 scale for 1dB, digital display : 0.1dB resolution .

#### 3.7 Battery cover

Open the battery cover to replace battery .

### 4.Cautions

- 4.1 Do cover the microphone with the wind screen, since Wind can bring additional signal that affect the measurement accuracy.
- 4.2 Operate and storage the instrument in the specified temperature and humidity.
- 4.3 Avoid violent vibration to the instrument.

### 5. Operation

- 5.1 Open the battery cover , install the batteries ;
- 5.2 Point the microphone to the sound source , the reading will be displayed on the screen .
- 5.3 when the MAX/MIN/HOLD appeared on the top of the screen , the reading displayed below is the Maximum , minimum and the current value .
- 5.4 When the operation completed, switch the instrument off and take out the batteries .