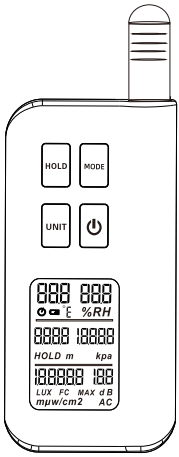


综合环境测试仪



产品概述

本仪器属于一款数据可靠、质量稳定、不老花、无损耗、属永久性综合环境测试仪，是一种经济适用、操作简单、使用方便、准确安全的测量设备。适合各种环境检测。

1.可检测所在环境的温湿度功能，具有界面简洁、操作简单、灵活、结果直观、运行稳定、数据可靠等优点。该仪器将提供先进而可靠的现代化测试。

2.可检测海拔高度和气压功能，采用原理是灵敏的无液气压计，可以分辨出大气压的微小变化。

3.可以检测亮度功能，照度检测仪是测量光照强度的一种手持式仪器，广泛应用于建筑、室内设计、舞台灯光等领域。能够对室内和室外的光照情况进行准确、快速可靠的检测和分析，是保证工作环境舒适和光学环境质量的有效工具。照度检测仪是通过光敏元件将光学信号转换为电信号，再通过电路放大、滤波、计算等过程，将光照强度转换为数字显示或模拟信号输出。光敏元件一般采用硅光电二极管或硒光电池，其原理都是利用光的能量使半导体材料中的电子跃迁产生光电效应，使电流或电势发生变化。

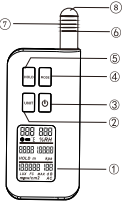
4.可检测噪声功能，这款“数字式声音分贝测量仪”标志着您已步入到测量领域前沿。该“声音分贝测量仪”是一款多元化、精美的产品，可以无损伤、快速、精密地测量各种环境。可以稳定地工作于实验室、车间现场和户外等。

1

产品描述

1、产品外观描述

序号	说明
1	显示屏
2	照度计单位切换按键
3	电源按键
4	噪声单位切换按键
5	屏幕锁定按键
6	湿度传感器
7	噪声接收器
8	照度计探头



2、开关与按键说明

电源键：长按○开机/关机。

UNIT 照度计单位切换键：
短按：照度计单位可进行LUX/FC切换；长按UNIT键可进行C/F切换。

MODE 噪声单位转换键：
短按噪声单位可进行dBA/dBC切换，长按噪音最大值显示。

HOLD 屏幕锁定键：
短按可以使屏幕数据锁定，方便记录数据，再次短按屏幕将继续读取当前最新数据显示。

3、LCD符号说明

符号	说 明
ⓘ	自动关机标识
☒	低电量提示
°C	温度符号
%RH	湿度百分比
HOLD	屏幕锁定
m	海拔高度单位
kpa	气压单位
LUX/FC	照度计亮度单位
dBA/C	噪音单位

2

规 格

概述

1. 显示：LCD屏
 2. 电池欠压指示：LCD显示☒符号
 3. 供电：内置3.7V 400mA 锂电池
 4. 工作高度：最大2000米
 5. 尺寸：160.9* 56.6 * 22.4mm
 6. 重量：117.2g
- 4 使用注意事项**
1. 使用前务必查看说明书，熟悉仪器的使用方法和性能参数。
 2. 应在温度：0~40℃（32~104°F）；湿度：20%~90%RH；无强磁场的室温下工作。
 3. 使用时应小心轻放，避免碰撞、摔落或其他损伤。
 4. 使用过程中，如果出现异常现象或故障，应停止使用并联系维修人员维修。
 5. 避免在高温、潮湿或易受干扰的环境下使用。
 6. 使用完毕后，应将仪器放在干燥，避免太阳直射或雨淋的地方。

使用及操作说明

1. 长按○键开机/关机，屏幕显示有ⓘ图标时，仪表可使用15分钟后自动关机，可短按ⓘ键取消自动关机功能。
2. 短按UNIT键照度计单位可进行LUX/FC切换；长按UNIT键可进行C/F切换，在进行测量之前，需要仔细检查被测光源的类型和位置，并确保没有遮挡物影响检测结果。同时，应该关闭所有的杂光源(例如窗户、灯光等)，确保被测区域的光源稳定无变化。如果测量范围较大，则可能需要移动检测仪的位置，以获取更全面的数据。
3. 短按MODE键噪声单位可进行dBA/dBC切换；长按MODE键可显示噪声最大值。量程可测到30到130分贝，输入信号单一，在进行测量噪声时要将噪声接收器适当的放到可测量的位置，测量的数据达到最佳。
4. 短按HOLD键，当屏幕显示HOLD时锁定屏幕数据，方便记录，再次短按HOLD键将取消锁定，将会显示当前最新数据。

3

5. 测试海拔气压，温度和湿度时，建议仪表适当的放置5~10分钟或者更长的时间禁止挪动，方便读取的数据值更准确。当你从一个地方移动到另一个地方时，高度计就显示出了高度的变化，升高或降低，即高出海面多少米《或英尺》。无液气压计机件包含在仪器内，是随天气条件的变化而产生的大气压的变化而变化的。

功能参数参考表：

功能	量程	分辨率	误差
温度（℃）	-20~60	0.1	±2℃
温度（℉）	-4~140	0.1	±2℉
湿度（%RH）	10~99	0.1	±3%RH
照度（LUX）	0~199999	0.1	±5%
照度（Fc）	0~199.99	0.01	±5%
高度（m）	-700~9000	0.01	±0.5m
气压值（hpa）	300~1200	0.01	±20hpa
噪音（dBA/C）	30~130	0.1	±5dB

（**特别提醒：**海拔高度是通过气压计算出来的结果，由于同一地点在不同时间的气压会有波动，高度值也会随之变化，高度值仅供参考使用。）

场所照明参考表：

Lux	场所
75~30	仓库，车库，暗房，休息室
150~75	走廊、厕所、储物间、通道、客房
300~150	教室，大厅，餐厅，病房，起居室
750~300	实验室，会议室，厨房
1500~750	大厅通道，操作室，柜台，车间
3000~1500	超精密车间
10000~30000	视觉功能检查室

4

场所噪声参考表：

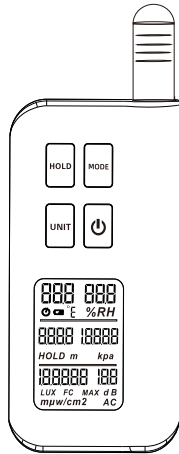
DB/A	场所
≤40	环境比较安静，卧室、书房、语言教室等
40~60	正常环境下，医务室、教室、值班室、办公室等
60~70	可以接受范围，车间值班室、精密装配线、精密加工车间、计算机房等
70~90	影响正常交谈，生产车间、建筑工地等
>90	听力会受到严重影响，长期生活在这环境中会产生神经衰弱、头疼、高血压等疾病

保养与维修

1. 用户须知：
用户应避免碰撞、重尘、高温、潮湿、强磁场等过度恶劣条件下使用本仪器，否则将损伤仪器。如果仪器使用中测量值偏差大，请首先检查是否电池电量不足，尝试重新开机，如果不能排除故障，请联系经销商。请务必自行拆装仪器，否则影响保修服务。
*定期使用湿布和少量洗涤剂清洁仪表外壳。请勿用研磨剂或化学溶剂。
2. 电池充电
如果LCD 出现“☒”符号，应充电后再使用，否则会影响测量精度。
1) 断仪仪表电源；
2) 取下电池盖，使用USB线充电，充电过程中，红色指示灯亮起，充满后为绿色指示灯；
3) 充电过程中仪表不允许开机和使用。

5

Integrated Environment Tester



Product Overview

The instrument is a reliable data, quality stability, not aging, no loss, is a permanent integrated environmental tester, it is a kind of economic and applicable, easy to operate, convenient to use, accurate and safe measuring equipment. Suitable for all kinds of environmental testing.

1. It can detect the temperature and humidity of the environment, and has the advantages of simple interface, simple operation, flexible, intuitive results, stable operation and reliable data. The instrument will be provided for advanced and reliable modern testing.

2. The altitude and barometric functions can be detected using a sensitive , liquid-free barometer that can distinguish small changes in barometric pressure.

3. It is a kind of hand-held instrument for measuring the intensity of illumination. It is widely used in the fields of architecture, interior design, stage lighting and so on. Can, indoor and outdoor lighting conditions for accurate, fast and reliable detection and analysis, is to ensure the comfort of the working environment and the quality of the optical environment, an effective tool. Illuminance detector converts optical signal into electrical signal through photosensitive element, and then converts illumination intensity into digital display or analog signal output through circuit amplification, filtering, calculation and so on. Photosensitive devices typically use silicon photodiode or selenium photocells, which use the energy of light to List of semiconductor materials electrons in a cell to produce a photoelectric effect that changes the electrical current or potential of the cell.

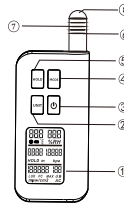
4. Noise detection function, this “Digital sound decibel meter” marks you, has stepped into the forefront of the field of measurement. The “Sound decibel meter” is a diversified, exquisite product, can be non-destructive, fast, precise measurement of a variety of environments. Can work steadily in the laboratory, workshop site and outdoor and so on.

1

Product Descriptions

1. Part Name

No.	Description
1	Display screen
2	Unit switch button for illuminance meter
3	Power button
4	Noise unit switch button
5	Screen Lock button
6	Humidity sensor
7	Noise receiver
8	Illuminometer probe



2、Switch and button instructions

Power button：Long Pressⓘpower on/off.

UNIT Unit switch key of illuminometer：
Short Press: Lux/FC Switch in illuminance units. Long Press Unit Key for ° C/° F switching

MODE Noise unit conversion key：
DBA/DBC switch can be made by short press noise unit, Long press the maximum noise display.

HOLD Screen Lock Key：
Short press can make the screen data lock, easy to record data, again short press the screen will continue to read the current latest data display.

3、LCD symbol description

Symbols	Description
ⓘ	Automatic shutdown sign
☒	Low power tips
°C	Temperature symbol
%RH	Percent humidity
HOLD	Screen Lock
m	A unit of altitude
kpa	A unit of air pressure
LUX/FC	A unit of illumination
dBA/C	Noise units

2

Specifications

Overview

1. Display: LCD
2. Battery low voltage indication: LCD display☒ symbol.
3. Battery: 3.7V 400mA
4. Operating altitude: ≤2000m.
5. Boundary dimension: 160.9* 56.6 * 22.4mm
6. Weight: 117.2g

Usage considerations

1. Be sure to check the instruction before use, familiar with the use of the instrument and performance parameters.
- 2.It should be operated at room temperature of 0 ~ 40 ° C (32 ~ 104 ° F), humidity of 20% ~ 90% Rh and no strong magnetic field.
3. Use with care to avoid collisions, falls or other injuries.
4. In the course of use, if there is abnormal phenomenon or failure, should stop using and contact maintenance personnel maintenance.
5. Avoid use in hot, humid or disturbed environments.
6. After use, the instrument should be placed in a dry place to avoid direct sunlight or rain.

Instructions for use and operation

1. Long Pressⓘkey on/off, screen display Ⓢcon, the instrument can be used 15 minutes after the automatic shutdown, can be short pressⓘkey to cancel the automatic shutdown function.
2. A short UNIT key illuminator UNIT can be used for Lux/FC switching. Long Press Unit Key for ° C/° F switching, Before making a measurement, it is necessary to carefully check the type and location of the light source being measured and make sure that there are no obstructions affecting the results. At the same time, should be closed all miscellaneous light sources (such as windows, lights, etc.), to ensure that the light source in the area under test is stable and unchanged. If the measurement range is large, it may be necessary to move the

3

position of the detector to obtain more comprehensive data.

3.Short Press the MODE key noise unit for DBA/DBC switching; Long press the mode key to display the maximum noise.Measuring range can be measured 30 to 130 decibels, the input signal is single, in the measurement of noise to the appropriate noise receiver placed in a measurable position, measured data to achieve the best.

4.Short Press HOLD key, when the screen shows HOLD lock screen data, convenient record, again, Short Press HOLD Key will unlock, will display the latest data

5. When measuring altitude pressure, temperature and humidity, it is recommended that the instrument be properly placed for 5-10 minutes or so For a longer period of time to prohibit moving, easy to read the data values more accurate. As you move from one place to another, the altimeter shows a change in height, up or down, how many meters or feet above sea level. The hydroless barometer component is included in the instrument and is subject to changes in atmospheric pressure resulting from changes in weather conditions.

Function parameter reference table:

Function	Range	Resolution	Tolerance
Temperature（℃）	-20~60	0.1	±2℃
Temperature（℉）	-4~140	0.1	±2℉
Humidity（RH%）	10~99	0.1	±3%RH
illumination（LUX）	0~199999	0.1	±5%
illumination（Fc）	0~199.99	0.01	±5%
Altitude（M）	-700~9000	0.01	±0.5m
Barometric pressure（hpa）	300~1200	0.01	±20hpa
Noise（dBA/C）	30~130	0.1	±5dB

(Reminder: Altitude is calculated based on air pressure. Due to fluctuations in air pressure at different times at the same location, the altitude value will also change accordingly. The altitude value is for reference only.)

4

Reference table for site lighting:

Lux	Place
75~30	Ware House, Garage, Darkroom, Lounge
150~75	Corridor, Toilet, Locker room, Channel, Guest room
300~150	Classroom, Hall, Restaurant, Ward, Living room
750~300	Laboratory, Conference room, Kitchen
1500~750	Hall channel, Operation room, Counter, Workshop
3000~1500	Ultra precision workshop
10000~30000	Visual function checking room

Reference table for site noise:

DB/A	Premises
≤40	The environment is quiet, bedroom, study, language classroom and so on
40~60	Under the normal environment, the infirmary, the classroom, the duty room, the office and so on
60~70	Acceptable Range, workshop duty room, precision assembly line, Precision Processing Workshop, computer room
70~90	Influence normal conversation, production workshop, construction site, etc
>90	Hearing can be seriously affected, and living in this environment for a long time can lead to Neurasthenia, headaches, high blood pressure and other diseases

Maintenance

1. User notice:

Users should avoid collision, heavy dust, high temperature, humidity, strong magnetic field and other excessive harsh conditions to use the instrument, otherwise the instrument will be damaged. If the measurement deviation of the instrument in use is large, please first check whether the battery is insufficient, try to restart, if you can not troubleshoot, please contact the dealer. Please disassemble the machine by yourself, otherwise the warranty service will be affected.

2. Battery Charging

- 1) If☒symbol appears, it means the battery needs to be charged.
- 2) Remove the battery cover and use a USB cable to charge. During the charging process, the red indicator light will light up, and when fully charged, it will turn green.
- 3) The meter is not allowed to be turned on and used during charging.

5