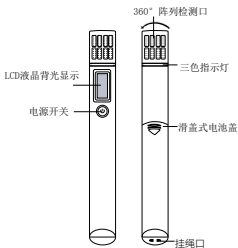


# 便携式气体检测仪

产品说明书



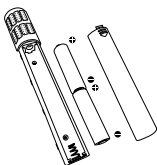
项目	参数
品名	便携式气体检测仪
显示方式	LCD液晶背光显示
采样方式	扩散式采集
检测温度	-10~45℃
储存温度	-20~50℃
电 池	2×AA (两节五号碱性电池)
工作电压	2.4~3.2V
外形尺寸	190*24.5mm
重 量	40g (不含电池)

型号	B01
检测项目	甲醛
检测原理	电化学气敏传感器原理
检测范围	0~3.888mg/m <sup>3</sup>
分 辨 率	0.01mg/m <sup>3</sup>

型号	B03
检测项目	甲醛和TVOC
检测原理	半导体气敏传感器原理
检测范围	0~9.999mg/m <sup>3</sup>
数值显示	千分位显示

型号	B05
检测项目	燃气
检测原理	催化气敏传感器原理
检测范围	0~9999PPM
分 辨 率	100ppm

B-1 产品由两节五号碱性电池(2×AA)供电。



※ 温馨提示：  
为了保证检测准确性，  
请选用碱性电池。

特别提示：

- 不可充电。
- 请勿高处跌落及浸于水中。
- 确保电池的正极和负极安装正确。
- 请勿将电池加热或投入火中，以免发生爆炸。
- 长时间不使用本产品时，请将电池取出，以免引起电池漏液、发热、破裂等情况，导致产品损坏。
- 由于检测仪电量不足时，会自动保护关机，因此当本产品无功能时，请及时更换电池。
- 废旧电池请勿随意拆解、丢弃，请按所在地区的相关法规进行妥善处理。

## C

### 使用方法

- C-1 打开开关：机器开始预热，LCD屏200秒倒计时显示。
- C-2 校准（仅B03需要）：倒计时结束之后进行仪器校准，移动到户外空气清新地方静置8分钟，长按开关键，看到绿灯闪烁立即松开按键，说明校准完成。然后直接拿进室内检测。
- C-3 开始检测：开机后有200秒倒计时，这表示检测仪正在准备状态。
- C-4 检测结束：关机、收起仪器并妥善保管。

显示灯指示介绍：

- 绿灯亮：表示空气质量佳。
- 黄灯亮：表示被检测气体超标，建议开窗通风。
- 红灯亮：表示被检测气体严重超标，建议对室内作一次全面的空气治理。
- 红灯闪：表示所检测气体以超过检测范围，建议立即离开所处环境

TVOC浓度 $<0.1\text{mg}/\text{m}^3$ ，绿灯亮  
TVOC浓度 $\geq 0.1\text{mg}/\text{m}^3$ 同时 $<0.3\text{mg}/\text{m}^3$ ，黄灯亮  
TVOC浓度 $\geq 0.3\text{mg}/\text{m}^3$ 同时 $<3.888\text{mg}/\text{m}^3$ ，红灯亮  
TVOC浓度 $\geq 3.888\text{mg}/\text{m}^3$ ，红灯闪

燃气浓度 $<2500\text{ppm}$ ，绿灯亮  
燃气浓度 $\geq 2500\text{ppm}$ 同时 $<4000\text{ppm}$ ，黄灯亮  
燃气浓度 $\geq 4000\text{ppm}$ ，红灯亮

甲醛浓度 $<0.1\text{mg}/\text{m}^3$ ，绿灯亮  
甲醛浓度 $\geq 0.1\text{mg}/\text{m}^3$ 同时 $<0.3\text{mg}/\text{m}^3$ ，黄灯亮  
甲醛浓度 $\geq 0.3\text{mg}/\text{m}^3$ 同时 $<2.0\text{mg}/\text{m}^3$ ，红灯亮  
甲醛浓度 $\geq 2.0\text{mg}/\text{m}^3$ ，红灯闪

## D

### 注意事项

- D-1 本仪器同所有精密仪器一样，检测仪内的传感器在工作时都会受到一定外界物质的干扰，因此使用本仪器进行检测时，请避免与酒精、香水等醇类物质和 $\text{H}_2\text{S}$ 、 $\text{CO}$ 、 $\text{SO}_2$ 、烟雾等气体接触。
- D-2 检测时，避免电风扇、暖风机、空气净化器等强风直接吹检测仪。
- D-3 对一个房间的多个点进行检测，然后取多个点数值的平均值，即是该房间中检测到气体的平均含量。
- D-4 不要污染或堵住传感器检测口，这样会降低检测的灵敏度。

## E

### 常见问题

- E-1问：总挥发性有机物（TVOC）的标准值是多少？  
答： $\leq 0.6\text{mg}/\text{m}^3$   
(GB/T 18883-2002和GB 50325-2001 II类民用建筑工程)
- E-2问：甲醛的标准值是多少？  
答： $\leq 0.10\text{mg}/\text{m}^3$   
(《室内空气质量标准》GB/T 18883-2002)
- E-3问：为什么检测仪比较耗电？  
答：为了提升检测仪准确性和灵敏性，程序需要进行大量复杂运算，电量需要相应增加，用完之后，请关闭电源，避免长时间开机导致电量浪费。
- E-4问：检测仪检测多大范围的地方呢，具体多少平方米？  
答：①小于 $50\text{m}^2$ 的房间应设1-3个点； $50-100\text{m}^2$ 设3-5个点； $100\text{m}^2$ 以上至少设5个点。选取的检测点应在对角线上或梅花式均匀分布。  
②采样点应避开通风口，离墙壁距离大于 $0.5\text{m}$ 。  
③采样点的高度：原则上与人的呼吸带高度一致。相对高度 $0.5\text{m}-1.5\text{m}$ 之间。

## F

### 保修卡

用户姓名		电话	
通讯地址			
购买日期		型号	
产品问题			
维修记录			

# LEANSTAR

扫码获取更多资讯



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邮箱:sales@leanstar-tech.com

地址:苏州工业园区纳米大学科技园D503

官方网站:www.lssensor.com

服务热线:+86-0512-62626885/+86-0512-62626887

# **Portable Gas Detector**

## User Manual

- Please take the batteries out when not used for a long period of time, to avoid liquid leak, heating or burst of the batteries.

- The product will automatically shut down for protection when the battery power is low, so please change the battery in time when the product is out of function.

- Don't disassemble or drop the used batteries casually. Please handle the battery waste properly according to local laws and regulations.

## **C** Operation

C-1 Switch on: the product starts to warm up when switched on, and the LCD screen displays 200-second countdown.

C-2 Calibration (for B03 type only): calibration the product when the countdown ends. The calibration procedure is described as below: keep the product in outdoor fresh air for 8 minutes' standing, and long-press the switch button until the green light is twinkling. After the calibration, indoor gas detection can be implemented.

C-3 Detection: 200-second countdown starts as soon as the product is switched on, indicating that the product is at ready.

C-4 End of detection: switch off and put away the product in care.

Indicator lights definition:

- Green light on: air quality is good
- Yellow light on: targeted gas concentration is out of limits, opening a window ventilated is recommended
- Red light on: targeted gas concentration is severely out of limits, a comprehensive indoor air cleanup is recommended
- Red light twinkling: targeted gas concentration is out of the detection range, leaving immediately from the present circumstances is highly recommended.

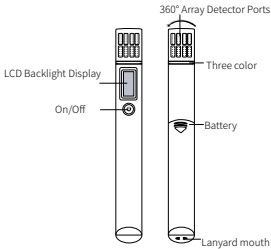
- **TVOC Concentration**  $< 0.1\text{mg}/\text{m}^3$ ,  
Green light turns ON
- $0.1\text{mg}/\text{m}^3 \leq \text{TVOC Concentration} < 0.3\text{mg}/\text{m}^3$ ,  
Yellow light turns ON
- $0.3\text{mg}/\text{m}^3 \leq \text{TVOC Concentration} < 3.888\text{mg}/\text{m}^3$ ,  
Red light turns ON
- **TVOC Concentration**  $\geq 3.888\text{mg}/\text{m}^3$ ,  
Red light twinkles

- **Flammable Gas Concentration**  $< 2500\text{ppm}$ ,  
Green light turns ON
- $2500\text{ppm} \leq \text{Flammable Gas Concentration} < 4000\text{ppm}$ ,  
Yellow light turns ON
- **Flammable Gas Concentration**  $\geq 4000\text{ppm}$  ,  
Red light turns ON

- **Formaldehyde Concentration**  $< 0.1\text{mg}/\text{m}^3$ ,  
Green light turns ON
- $0.1\text{mg}/\text{m}^3 \leq \text{Formaldehyde Concentration} < 0.3\text{mg}/\text{m}^3$ ,  
Yellow light turns ON
- $0.3\text{mg}/\text{m}^3 \leq \text{Formaldehyde Concentration} < 2.0\text{mg}/\text{m}^3$ ,  
Red light turns ON
- **Formaldehyde Concentration**  $\geq 2.0\text{mg}/\text{m}^3$ ,  
Red light twinkles

# A

## A Product Description

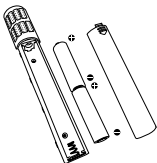


ITEM	Parameter
Name	Portable Gas Detector
Display Type	LCD display
Detection Type	Diffusion type
Operation Temperature	-10~45°C
Storage Temperature	-20~50°C
Power	2*LR6
Supply Voltage	2.4~3.2 V
Sizes	φ24.5*190 mm
Weight	40 gram
Model Number	B01
Detection Item	Formaldehyde
Detection Technology	Electrochemical Sensors Technology
Detection Range	0~3.888 mg/m <sup>3</sup>
Resolution	0.01 mg/m <sup>3</sup>
Model Number	B03
Detection Item	Formaldehyde, TVOCs
Detection Technology	Semiconductor Sensor Technology
Detection Range	0~9.999 mg/m <sup>3</sup>
Min Display	0.001 mg/m <sup>3</sup>
Model Number	B05
Detection Item	Natural Gas
Detection Technology	Catalytic method gas sensor
Detection Range	0~9999 ppm
Resolution	100 ppm

# B

## Installation

B-1 This product is powered by two LR6.



※ Tips:  
Reminder: please use alkaline battery.

Tips:

- For the claimed detection accuracy, alkaline battery is recommended as the power.
- This product CANNOT be charged.
- Avoid being dropped from high places or immersed in fluids.
- Make sure the batteries are correctly installed.
- Don't heat the battery or throw it into fire, for an explosion may happen.

## D

### Announcements

- D-1 The sensor of the detector may be affected by external disturbance just like all the other high precision apparatuses, so contact with ethanol, perfume or gas like H<sub>2</sub>S, CO, SO<sub>2</sub> and smoke should be avoided.
- D-2 When the detector is working, avoid straight wind flow from electric fans, warm air blower, air conditioner or air cleaner.
- D-3 The average concentration of the targeted gas in a room can be obtained by detecting at several locations of the room and then averaging the data.
- D-4 Don't contaminate or block the detection window, otherwise sensitivity of the sensor may deviate.

## E

### FAQS

- E-1 What's the standard value of TVOC concentration?**  
Answer:  $\leq 0.6\text{mg}/\text{m}^3$ . (Refer to GB/T 18883-2002 and 50325-2001 II)
- E-2 What's the standard value of formaldehyde concentration?**  
Answer:  $\leq 0.1\text{mg}/\text{m}^3$ . (Refer to GB/T 18883-2002)
- E-3 Why does the detector have so high power consumption?**  
Answer: To guarantee the detection accuracy and sensitivity, the program needs to process a lot of complicated operations, which costs much usage of electricity. Turn off the power when detection ends to avoid waste of electricity.
- E-4 How big is the product "detection area"? How many square meters specifically?**  
Answer: i) 1~3 locations should be detected when the area is less than 50m<sup>2</sup>; 3~5 locations should be detected when the area is between 50m<sup>2</sup>~100m<sup>2</sup>; at least 5 locations should be detected when the area is larger than 100m<sup>2</sup>. All the detection locations should be distributed on the diagonal or in quincunx form.  
ii) detection locations should be kept away from air vent, and at least 0.5m far away from walls.  
iii) height of detection locations is comparable to breathe height of human, relatively between 0.5~1.5m.

## F

### Warranty

User name	
Telephone number	
Address	
Type	
Date of purchase	
Problem description	
Maintenance record	

## G

### Information

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