

AE7700 二氧化碳控制器

中英文使用说明书



Co2 controller

引言

- 感谢您购买本公司生产的二氧化碳检测控制器。
- 本手册仅提供本产品的相关测量功能的使用方法以及使用方面的注意事项,要发挥本产品的最佳使用效能,使用前请详阅本手册,并妥善保管本手册以便不时之需。
- 当您收到此产品时请检查仪器是否完好,配件是否齐全,如有缺失或是其它任何问题请您尽快与供应商联系。

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English

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产品参数

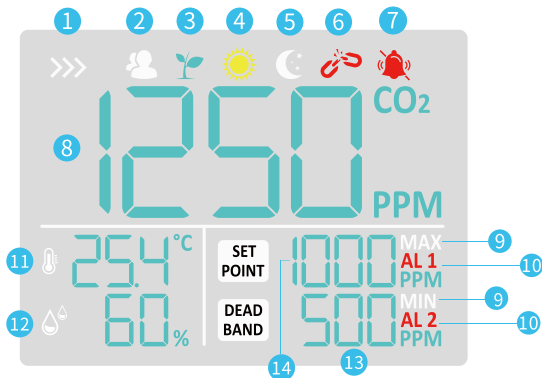
型号

AE7700

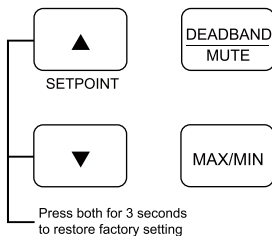
二氧化碳测量范围	0-9999ppm
二氧化碳分辨率	1ppm
二氧化碳测量精度	±50ppm /读数±5%
二氧化碳重复性	10ppm
温度影响	每度影响读数的±0.1% 或者 ±2ppm, 参考温度为25°C
压力补偿	支持
响应时间	<1min
开机时间	<20s
温度测量范围	0~50°C (32°F~122°F)
温度分辨率	0.1°C (0.1°F)
温度精度	±0.5°C (±1°F)
稳定时间	<10min
湿度测量范围	0-99%
湿度精度	±3%
湿度分辨率	0.1%
产品尺寸	主机:164*147*47mm 传感器:63*99*28mm
产品重量	~1080g
产品标配	仪器/传感器/连接线(4.6m)*1/输出/入电源线(1.5m)*2/挂钩/说明书/螺丝膨胀管/纸箱

操作温度	0~50℃
存储温度	-20~60℃
操作/存储湿度	0~99% 不结露
输入电压	AC 100~300V
输出负载	10A@250VAC

面板按键说明

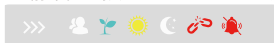


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|-------------|-----------|---------------|
| 1. “正常工作”图标 | 2. 人物模式 | 3. 植物用模式 |
| 4. “白天”图标 | 5. “夜间”模式 | 6. 传感器连接/断开图标 |
| 7. “报警”图标 | 8. 二氧化碳读数 | 9. 最大/最小值读数 |
| 10. 报警点 | 11. 温度读数 | 12. 湿度读数 |
| 13. 回滞数值设置 | 14. 中心值设置 | |

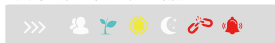


功能介绍

1. 静音: 长按“DEADBAND”键3秒可以打开或关闭蜂鸣器。



(图1)

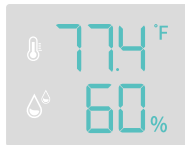


(图2)

2. 温度切换: 长按“▲”键3秒可以切换温度单位°C或°F。

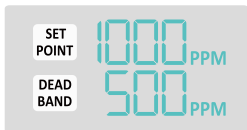


(图3)



(图4)

3. MAX/MIN: 轻按“MAX/MIN”键, 最大值和最小值将显示在LCD的右下角, 再按任意键退出或等待10秒钟后自动退出, 返回至正常显示画面。



(图5)



(图6)

4. 在MAX/MIN 模式下, 长按MAX/MIN 键3秒, 将清除最大值和最小值并返回正常显示画面。



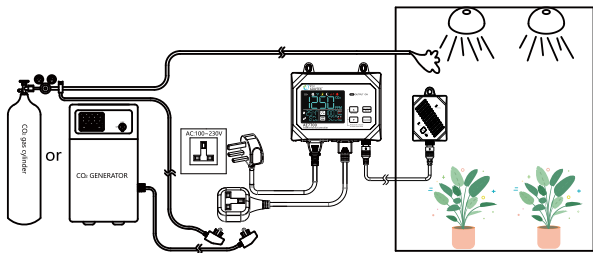
(图7)



(图8)

5. 恢复出厂设置: 长按“▲”和“▼”键3秒, 将返回出厂设置并自动重启。

植物模式



注:产品默认为植物用模式,用户可以在开机的同时按住“▲”键则产品会自动切换为人用模式。

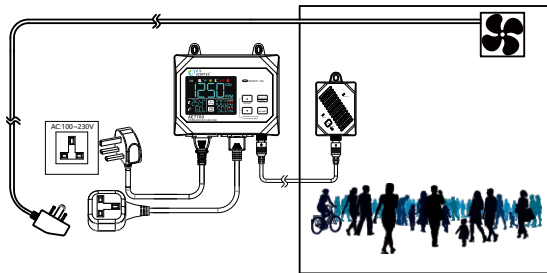
1.自动判断白天/晚上:内置光敏传感器,根据环境光线强度,可以自动判断白天和晚上。当判断为晚上时,无论检测到的二氧化碳浓度为多少,继电器都将没有输出。

2.目标中心值设定:按“▲”或“▼”键,调整二氧化碳目标值,每按一下增加或减少50PPM。

3.目标回滞设定:按“DEADBAND”键,设置目标回滞值,每按一下调整50PPM (回滞的可调范围为50~500PPM)。

例如:在植物模式,继电器有输出的情况下,如果SETPOINT=1000 PPM, DEADBAND=200PPM,当二氧化碳浓度继续升高超过1200PPM时关闭继电器输出,当二氧化碳浓度降低到800PPM以下时打开继电器输出。

人物模式



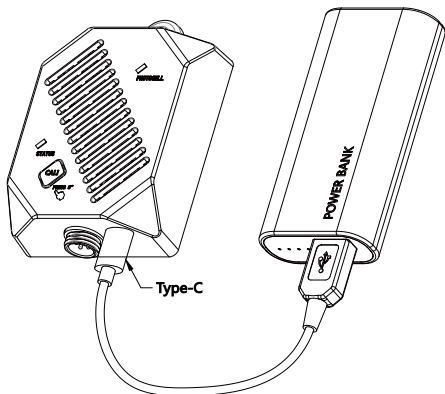
1.初始默认报警点1(AL1)=800PPM,按“▲”或“▼”键可以调整报警点1的数值。(报警点1的调整范围是800~2500PPM,每按一下调整100PPM)。



2.初始默认报警点2(AL2=2600PPM,按“DEADBAND”键,LCD上“AL2”开始闪烁,然后按“▲”或“▼”键可以调整报警点2的数值。(报警点2的调整范围是2600~5000PPM,每按一下调整100PPM)。

当二氧化碳浓度超过AL1设定值时,继电器输出打开同时蜂鸣器会鸣叫,当二氧化碳浓度持续上升超过AL2时设定值时,蜂鸣器会急促鸣叫。

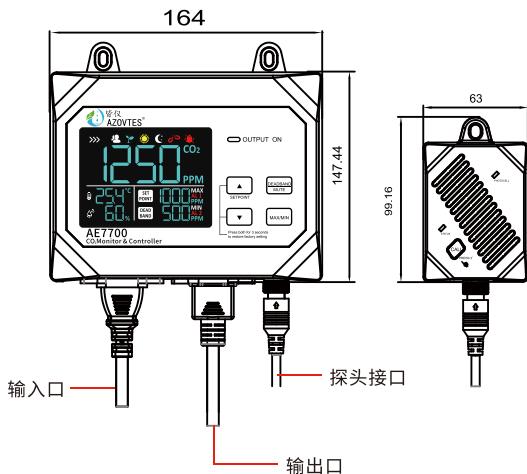
校正步骤



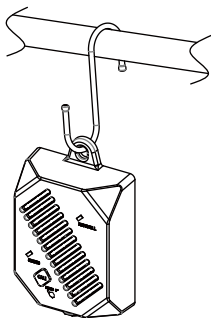
1.当用户认为二氧化碳的检测结果有偏差时,可以利用室外大气进行校准(空旷的室外二氧化碳浓度约为400ppm)。将二氧化碳传感器取下拿到空旷的室外使用5V移动电源给传感器供电,如图。

2.长按CALI键3秒,红、绿灯交替闪烁后松开按键,大约等待15分钟校准完成后绿灯闪烁表示校准成功,如果红灯闪烁则校准失败,用户可以重复校准。(注意!自动校准时要远离传感器,以免人呼出的二氧化碳影响校准结果)。

安装孔位尺寸



使用附件中的挂钩可以将传感器挂在不方便安装的位置。



特殊声明

- 1.本产品不用于危险的工作场所,也不用于人类或动物健康机构,生命维持或任何医疗相关情况的最终监测。
- 2.本公司对用户或任何第三方使用本产品或其故障而遭受的任何损坏或损失不承担任何责任。
- 3:本公司保留对本产品设计规格及说明书内容的更新、修改权利,若有变更恕不另行通知!

保修事项

- 1.本产品自购买日起,在正常使用未经拆装,维修或第三方因素的损坏下一年内享受保修服务,在任何正常情况下均提供维修。
- 2.上述保修条款只对主机有效,探头配件等耗材不在保修范围内。

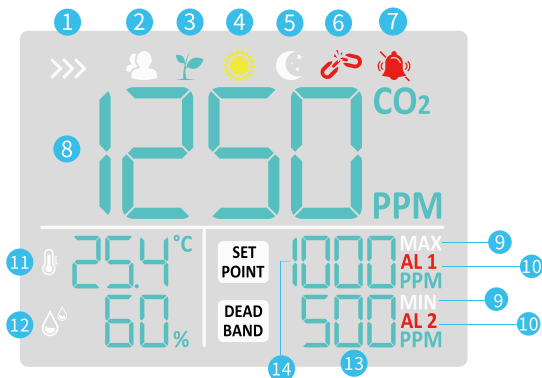
Specification

Model: AE7700

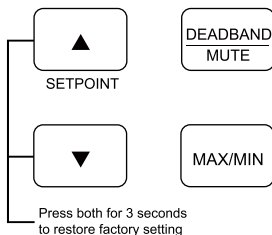
CO2Measurement Range	0-9999ppm
CO2Display Resolution	1ppm
CO2Accuracy	±50ppm, ±5% of reading, whichever is greater
Co2Repeatability	10ppm
CO2Temp Dependence	±0.1% of reading per °C or ±2ppm per °C, whichever is greater, referenced to 25°C
Pressure Dependence	support
Response Time	<1min
Warm-up Time	<20s
Operating Temperature	0~50°C (32°F~122°F)
Display Resolution	0.1°C (0.1°F)
Accuracy	±0.5°C (±1°F)
Response Time	< 10min
RH Range	0-99%
RH Accuracy	±3%
RH Resolution	0.1%
Protduct size	Sensor Unit: 164*147*47mm Control Unit: 63*99*28mm
Weight	~1080g (include cables)
Accessories	Controller Unit/Sensor Unit/Cable (4.6m) x1/ Output and input power cables (1.5m) *2/Hook/ instructions/Screws and Expansion Pipes/carton

Operating Temperature	0~50°C
Storage Temperature	-20~60°C
Operating&Storage RH	0~99% non-condensing
Power input	AC 100~300V
Output socket Load	10A@250VAC

LCD Display

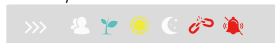


- 1.Device working icon 2.Human mode 3.Plant mode
 4.Daytime icon 5.Nighttime icon 6.Sensor unit disconnect icon
 7.Alarm icon 8.CO2 reading 9.MAX/MIN value
 10.Alarm values setting 11.Temperature reading 12.Humidity reading
 13. DEADBAND value 14.SETPOINT value

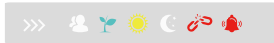


Functions

1. MUTE: Press and hold the “DEADBAND” button for 3 seconds to ON/OFF the buzzer.

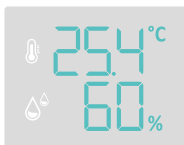


(图1)

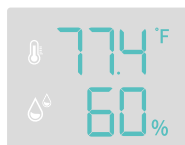


(图2)

2. °C/°F: Press and hold the “▲” button for 3 seconds to change °C/°F.



(图3)



(图4)

3. MAX/MIN: 轻按 “MAX/MIN” button to display the CO2 MAX/MIN PPM record, press any button or wait about 10 seconds the screen will return to normal display.



(图5)



(图6)

4. if you press and hold the MAX/MIN button for 3 seconds, the record will be reset.



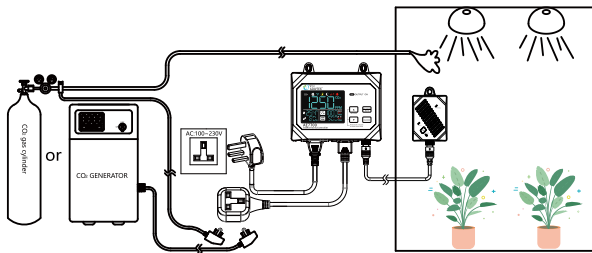
(图7)



(图8)

5. RESTORE FACTORY SETTING: Press both of “▲” and “▼” button for 3 seconds to restore factory setting.

For plant



Press and hold the “▲” button while power on to change the **PLANT MODE** or **HUMAN MODE**.

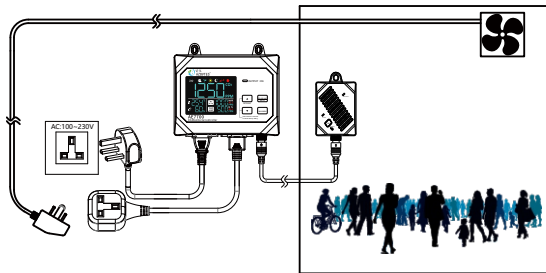
1. **Auto Detect Day/Night:** The built-in Photocell sensor can automatically detect whether it is Day or Night. It can override the CO2 control and shut off the CO2 generator by turning off the output power during the night. Conversely if the Photocell detects light and the CO2 level is low, the device will start the CO2 generator by turning on output power.

2. **SET POINT:** Press the “▲” or “▼” button to set the target 50 PPM.

3. Press the **DEADBAND** button to set the desired deadband setting (the deadband range is 50~500PPM, each press is 50 PPM).

Example: For CO2 increase mode, if the SETPOINT=1000PPM and the DEADBAND=200PPM, the CO2 output will start to work below 800PPM, and shut off over 1200PPM.

For human



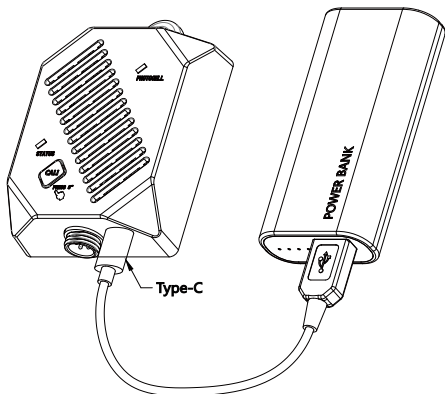
1.Default AL1=800PPM, Press the“▲”or“▼” button to set the AL1 (the AL1 range is 800~2500PPM, each press is 100PPM).



2.Default AL2=2600PPM, Press“DEADBAND”button, the “AL2” icon will flash, then press the“▲”or“▼” button to set the AL2 (the AL1 range is 2600~5000PPM, each press is 100PPM).

When the CO2 Monitor detects CO2 concentration that exceeds the AL1 level, the buzzer will sound intermittently, the relay will be triggered. If the concentration of CO2 continues to rise above the second alarm level, the tempo of the buzzer will increase.

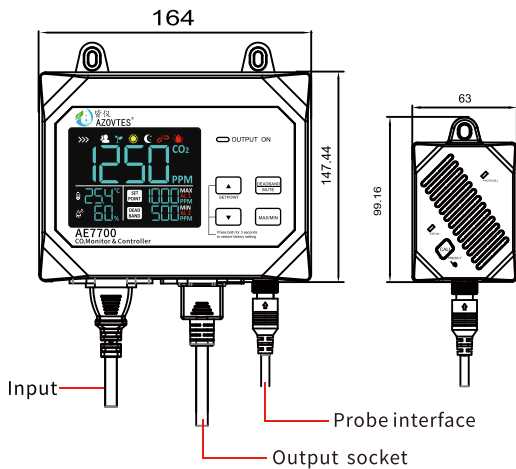
Calibration



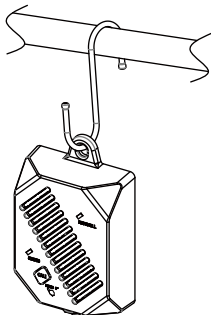
1. Take the CO2 sensor (probe unit) to the outside, use the mobile power supply (5V) and power cords (type-C) connect as below picture.

2. press the CALI button for 3 seconds, the green LED and red LED will flash alternately, waiting about 15 minutes, the calibration will completed, if PASS, the green LED will flash; (if FAIL, the red LED will flash, please do it again.) .

Installation Dimension



Using the hook to hang the sensor.



Important declare

1.This device is not intended for workplace hazard CO2 monitoring, nor intended as a definitive monitor for human or animal health institutions, life sustenance, or any medical -related situation.

2.AZOVTESand the manufacturer assumes no responsibility for any damage or loss suffered by the user or any third party arising through the use of this product or its malfunction.

3.The company reserves the right to update and modify the DesignSpecifications and Manual of this product without prior notice.

Warranty

1.The meteris warranted to be free from defects in material andworkmanship for a period of one year from the date of purchase.This warranty covers normal operation and does not cover batterymisuse, abuse alteration, tampering, neglect, improper maintenanceor damage resulting from leaking batteries.

2.The above warranty terms are only valid forthe main instrumentand consumables such as probe accessories are not covered by thewarranty.

Dongguan Frank Technology Co., Ltd.

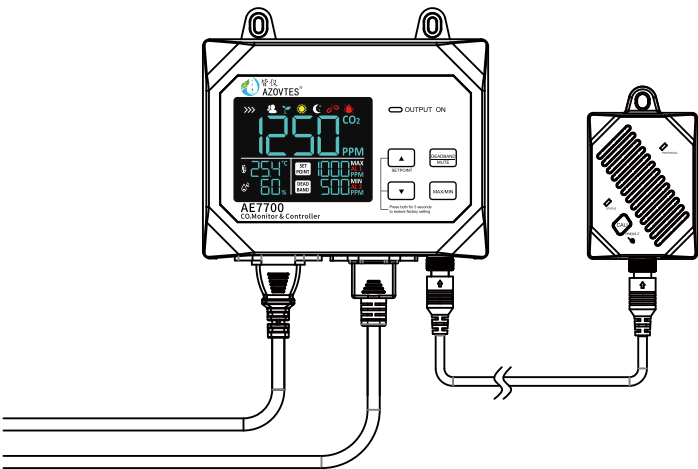
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