

TAKSTAR® 得胜



ZS-28D

电源控制器

Power Controller

使用手册 | User Manual

ZS-28D 电源控制器

■ 前言

感谢您选购得胜ZS-28D电源控制器,为了您能够更好地了解使用本产品,建议您在使用前仔细阅读本说明书。

若存在有疑问或者您有宝贵的建议,可通过拨打得胜官方服务热线400 6828 333或微信扫描二维码关注得胜官方公众号与我们联系。



■ 产品特性

- 本地手动控制:面板设K1~K8 功能按键,正常模式下独立控制每路负载通断;配置模式复用为设置按键;
- 运行状态指示:搭载 POWER电源指示灯、CPT配置模式指示灯及八路回路状态指示灯,设备运行、配置、回路通断状态直观可见;
- 消防联动功能:支持DC24V消防信号接入,可按需配置为消防强切(全部回路断开)或消防强起(全部回路导通)两种模式;
- 本地多功能配置:支持自定义开机状态、通讯波特率、回路通断延时,同时可设置设备通讯地址、恢复出厂设置;
- 硬件安全防护:集成过零检测、过压保护功能,有效提升设备与后端负载的运行安全性;
- 断电状态记忆:具备断电记忆功能,设备重新上电后,可按照预设模式恢复工作状态;
- 远程联网控制:可接入物联网控制系统,支持远程集中管控、手机 APP 操作及场景化联动;
- 全局总控功能:预留总开关接线端子,可外接物理总控按钮,实现八路回路一键全开、一键全关;
- 辅助电源输出:自带12V直流电压输出接口,可对外提供辅助供电;
- 总线组网通讯:采用标准RS485通讯方式,支持多台设备串联组网控制。

■ 适用范围

适用于会议厅、报告厅、酒店、商业楼宇等各类智能照明及电气集中控制场景

■ 产品配置

电源控制器.....	1台
说明书.....	1份

ZS-28D 电源控制器

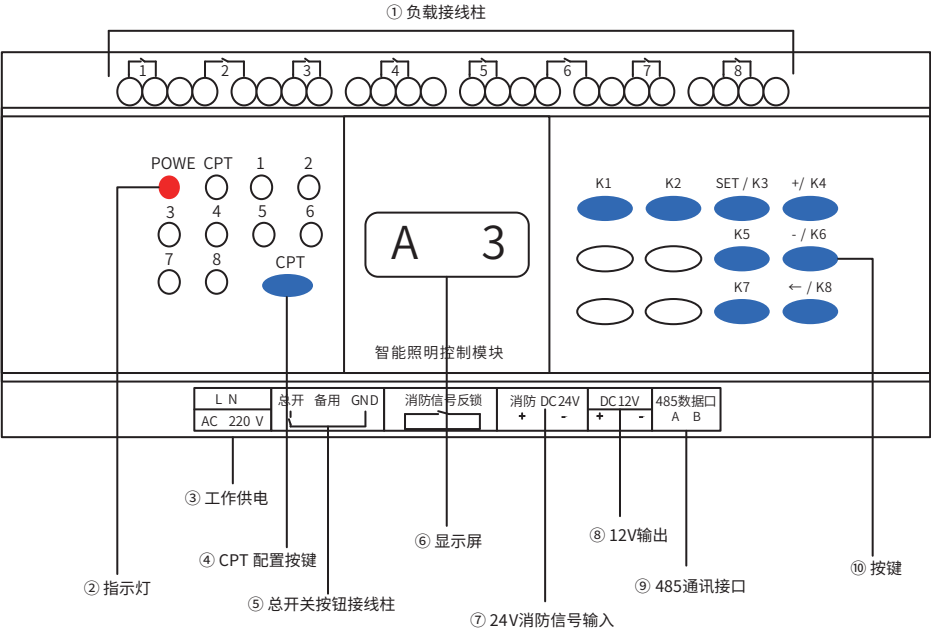
■ 技术参数

- 负载回路:8路
- 额定负载电压:85V-268V 50/60Hz
- 单路额定电流:30A
- 硬件保护:过零检测、过压保护
- 通讯协议:RS-485 总线
- 默认通讯参数:波特率9600、数据位 8、停止位 1、无校验
- 消防信号输入:DC24V
- 辅助输出:DC12V
- 工作温度:-10°C ~ 65°C
- 工作湿度:≤90% (无凝结)
- 安装方式:35mm标准导轨安装
- 外观尺寸 (MM) :216×95×66mm
- 净重 (KG) :0.68kg

注:以上数据由得胜实验室测试得到,并拥有最终解释权!

ZS-28D 电源控制器

■ 功能示意



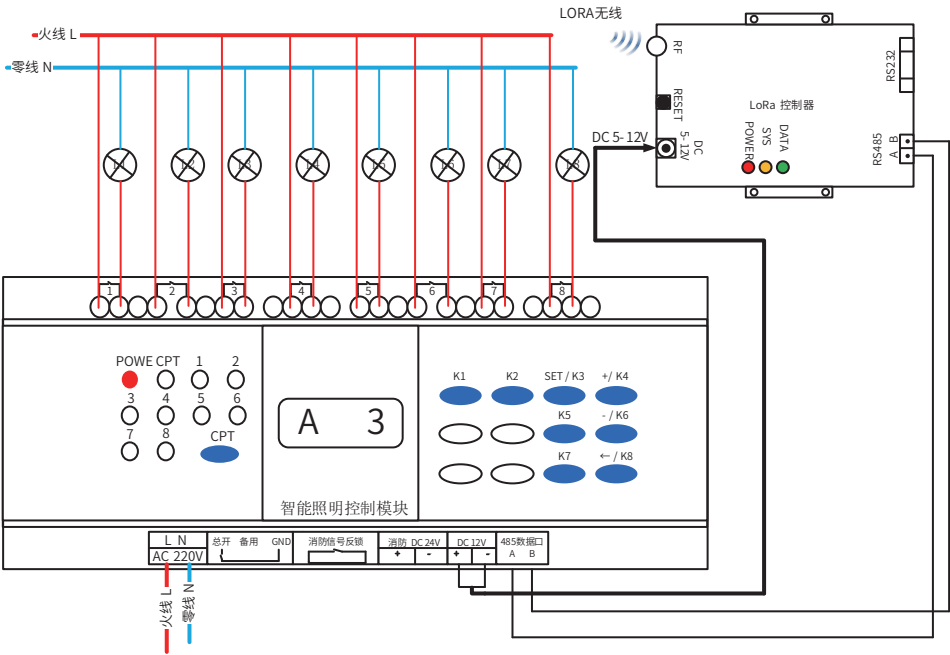
- ① 负载接线柱：八路负载回路接线端，每路分别接入火线与被控灯控线，严格依照接线图施工，禁止错接，避免损坏设备及后端用电设备。
- ② 指示灯：POWER：电源指示灯，通电正常后常亮；CPT：配置模式指示灯，灯亮为配置状态，灯灭为正常控制状态；回路指示灯（1~8）：对应回路导通时点亮，断开时熄灭。
- ③ 工作供电：设备工作电源输入端，适配 85~268V 交流电。
- ④ CPT 配置按键：短按进入/退出配置模式；进入配置模式后，K1~K8 回路按键失效，按键复用为功能设置键。
- ⑤ 总开关按钮接线柱：包含总开、GND 端子，可外接物理总开关，实现八路回路全局控制。
- ⑥ 显示屏：配置状态下显示功能代码与参数，便于本地设置。
- ⑦ 消防输入接口：DC24V 消防信号接入端，用于联动消防系统。
- ⑧ DC12V 输出接口：对外辅助直流供电输出端。
- ⑨ RS485 通讯接口（A/B）：标准总线通讯接口，用于设备组网、上位机及控制器通讯。
- ⑩ 功能按键（K1~K8 复用）：正常模式：K1~K8 独立控制八路负载通断；配置模式：SET/K3、+/K4、-/K6、返回 K8 组合完成参数设置、保存与退出。

注：所有接线作业务必断电操作，严禁带电接线！

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■ 使用说明

产品连接图



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控制代码

功能协议

通讯接口:RS485默认串口参数:波特率 9600, 数据位 8 位, 停止位 1 位, 无校验位 指令格式:十六进制

通道控制	控制代码
通道 1 关闭	03 06 00 03 00 00 78 28
通道 1 打开	03 06 00 03 00 01 B9 E8
通道 2 关闭	03 06 00 04 00 00 C9 E9
通道 2 打开	03 06 00 04 00 01 08 29
通道 3 关闭	03 06 00 05 00 00 98 29
通道 3 打开	03 06 00 05 00 01 59 E9
通道 4 关闭	03 06 00 06 00 00 68 29
通道 4 打开	03 06 00 06 00 01 A9 E9
通道 5 关闭	03 06 00 07 00 00 39 E9
通道 5 打开	03 06 00 07 00 01 F8 29
通道 6 关闭	03 06 00 08 00 00 09 EA
通道 6 打开	03 06 00 08 00 01 C8 2A
通道 7 关闭	03 06 00 09 00 00 58 2A
通道 7 打开	03 06 00 09 00 01 99 EA
通道 8 关闭	03 06 00 0A 00 00 A8 2A
通道 8 打开	03 06 00 0A 00 01 69 EA

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安全警示

为避免电击、高温、着火、辐射、爆炸、机械危险以及使用不当等可能造成的人身伤害或财产损失, 使用本产品前, 请仔细阅读并遵守以下事项:

1. 使用产品时请确认所连设备与本产品是否匹配以及合理调整音量大小, 不要在超过产品功率及大音量下长时间使用, 以免造成产品异常;
2. 使用中若发现有异常 (如冒烟、异味等), 请立即关闭电源开关并拔掉电源插头, 然后将产品送售后服务网点检修;
3. 消费者若使用电源适配器供电, 则应购买配套使用获得CCC认证并满足标准要求的电源适配器;
4. 本产品及配件都应放置于室内干燥通风处, 请勿长期存放在潮湿、灰尘多的环境, 使用中避免靠近火源、雨淋、进水、过度碰撞、抛掷、振动本机及覆盖通风孔, 以免损坏其功能;
5. 若产品需要固定于墙壁或天花板时, 请确保固定到位, 防止因固定强度不足导致产品发生跌落危险;
6. 使用该产品时需遵守相关安全规定, 法律法规明确禁止使用场合请勿使用本产品, 以免导致意外事故;
7. 请不要自行拆机改装或维修, 以防止出现人身伤害, 如有问题或服务需求请联系当地售后服务网点跟进处理。

环保说明

产品中有毒有害物质或元素的名称及含量标识表

部件名称	有毒有害物质或元素									
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	邻苯二甲酸二正丁酯 (DBP)	邻苯二甲酸二异丁酯 (DIBP)	邻苯二甲酸丁基苯酯 (BBP)	邻苯二甲酸二(2-乙基)己酯 (DEHP)
塑料部件	○	○	○	○	○	○	○	○	○	○
金属部件	×	○	○	○	○	○	○	○	○	○
电路板组件	×	○	○	○	○	○	○	○	○	○
线缆	×	○	○	○	○	○	○	○	○	○
注1: ○ : 表示该有害物质在该部件所有均质材料中的含量均不超出电器电子产品有害物质限制使用国家标准要求。 × : 表示该有害物质至少在该部件的某一均质材料中的含量超出电器电子产品有害物质限制使用国家标准要求。 注2: 以上未列出的部件, 表明其有害物质含量均不超出电器电子产品有害物质限制使用国家标准要求。										
此标志为产品的环保使用期限标志, 且此环保使用期限只适用于产品正常工作的温度和湿度等条件。										

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■ 关于图标含义解释



此符号表示，根据WEEE指令(2012/19/EU)和国家法律，由于这种类型的废弃物会有潜在的有害物质，可能对环境 and 人类健康产生负面影响，所以本产品不应与您的家庭垃圾一起处置，



应将本产品应交由授权的电气和电子设备 (WEEE) 回收站回收。同时，您在正确处理本产品的同时将有助于自然资源的有效利用。如需了解更多有关您可以在何处放置废物回收设备的信息，请联系您当地的城市办事处、废物管理局或家庭废物处理服务部门。

■ 关于本说明书

本说明书中内容符合截止印刷之日的技术规格。由于得胜公司会不断改进产品，本说明书可能不符合您的特定产品的技术规格。要获取最新版说明书，请访问得胜官网，然后下载说明书文件。技术规格、设备或另售的附件在各个地区可能有所不同，如有问题请与当地得胜销售网点确认。如需更多支持和深层产品信息，请浏览得胜官方网站：<https://www.takstar.com>

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ZS-28D Power Controller

■ Preface

Dear Customer,

Thanks for purchasing our product. Read this manual thoroughly for proper use.

If you have any questions or suggestions, please contact our local sales service.

■ Features

- Local Manual Control: K1-K8 function buttons on the panel; independently control each load on/off in normal mode, and double as setting buttons in configuration mode.
- Operation Status Indication: Equipped with POWER indicator, CPT configuration mode indicator and 8-channel loop status indicators for intuitive status display.
- Fire Alarm Linkage: Supports DC24V fire signal input; configurable for forced off (all loops open) or forced on (all loops closed) mode.
- Local Multi-function Configuration: Customizable power-on status, baud rate, loop on/off delay; supports device address setting and factory reset.
- Hardware Safety Protection: Built-in zero-crossing detection and over-voltage protection, improving operation safety of the device and downstream loads.
- Power-off Memory: Remembers working status and resumes preset operation after power restoration.
- Remote Network Control: Compatible with IoT control system; supports remote centralized management, mobile APP control and scenario linkage.
- Global Master Control: Reserved master switch terminals for external physical master button; one-key full on/off for 8 channels.
- Auxiliary Power Output: Built-in 12V DC output port for external auxiliary power supply.
- Bus Networking Communication: Standard RS485 communication; supports multi-device series networking control.

■ Applications

Suitable for intelligent lighting and centralized electrical control scenarios in conference halls, lecture halls, hotels, commercial buildings.

ZS-28D Power Controller

■ Package Contents

1 × Power Controller

1 × User Manual

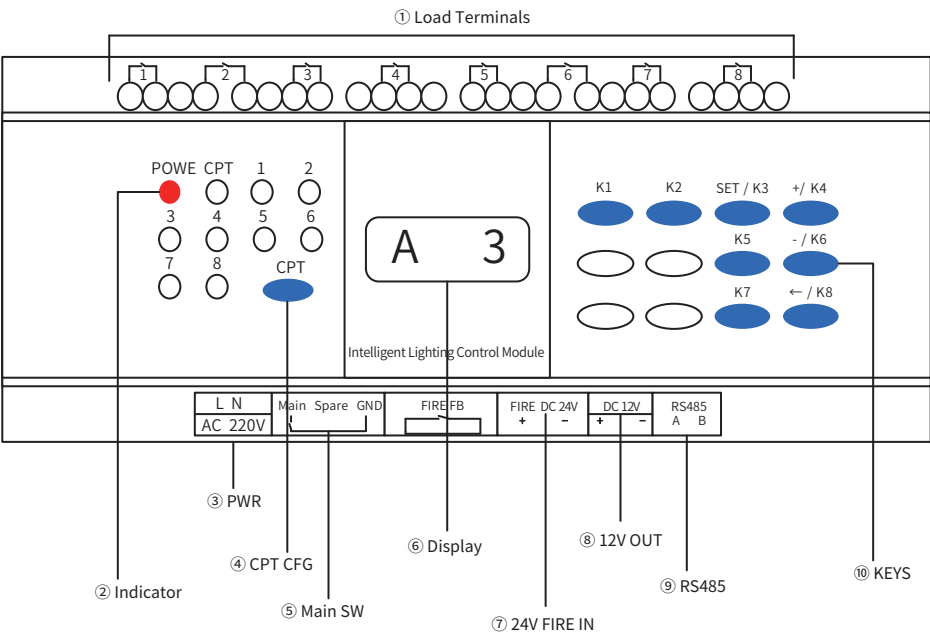
■ Specifications

- Load circuits: 8 channels
- Rated Load Voltage: 85V–268V 50/60Hz
- Rated Current per Circuit: 30A
- Hardware Protection: Zero-crossing detection, overvoltage protection
- Communication Protocol: RS-485 bus
- Default Communication Parameters: Baud rate 9600, 8 data bits, 1 stop bit, no parity
- Fire Signal Input: DC24V
- Auxiliary Output: DC12V
- Operating Temperature: -10°C to 65°C
- Operating Humidity: ≤90% (non-condensing)
- Installation: 35mm standard DIN rail mounting
- Dimensions (mm): 216 × 95 × 66 mm
- Net Weight (kg): 0.68kg

Note: The above data are measured by Takstar laboratory which has the final interpretation right!

ZS-28D Power Controller

Function Descriptions



- ① Load Terminals: 8-channel load circuit connection terminals. Each channel connects to the live wire and controlled lighting control wire respectively. Wiring must be carried out strictly in accordance with the wiring diagram. Wrong connection is prohibited to avoid damage to the device and downstream electrical equipment.
- ② Indicators: POWER: Power indicator, stays solid on when power supply is normal. CPT: Configuration mode indicator, on for configuration status, off for normal control status. Circuit indicators (1-8): Illuminate when the corresponding circuit is energized, and go out when the circuit is disconnected.
- ③ Power Supply: Operating power input terminal for the device, compatible with 85-268V AC.
- ④ CPT Configuration Button: Short press to enter/exit configuration mode. After entering configuration mode, the K1-K8 circuit buttons are disabled and reused as function setting buttons.
- ⑤ Master Switch Terminals: Include Master ON and GND terminals, support an external physical master switch to realize global control of all 8 channels.

ZS-28D Power Controller

Control Codes

Function Protocol

Communication interface: RS485; default serial parameters: 9600 baud, 8 data bits, 1 stop bit, no parity; command format: hexadecimal.

Channel Control	Control Code
Channel 1 OFF	03 06 00 03 00 00 78 28
Channel 1 ON	03 06 00 03 00 01 B9 E8
Channel 2 OFF	03 06 00 04 00 00 C9 E9
Channel 2 ON	03 06 00 04 00 01 08 29
Channel 3 OFF	03 06 00 05 00 00 98 29
Channel 3 ON	03 06 00 05 00 01 59 E9
Channel 4 OFF	03 06 00 06 00 00 68 29
Channel 4 ON	03 06 00 06 00 01 A9 E9
Channel 5 OFF	03 06 00 07 00 00 39 E9
Channel 5 ON	03 06 00 07 00 01 F8 29
Channel 6 OFF	03 06 00 08 00 00 09 EA
Channel 6 ON	03 06 00 08 00 01 C8 2A
Channel 7 OFF	03 06 00 09 00 00 58 2A
Channel 7 ON	03 06 00 09 00 01 99 EA
Channel 8 OFF	03 06 00 0A 00 00 A8 2A
Channel 8 ON	03 06 00 0A 00 01 69 EA

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■ Safety Instructions

To avoid electric shock, overheat, fire, radiation, explosion, mechanical risk and injury or property loss due to improper use, please read and observe the following items before use:

1. Please check if the power of the connected equipment matches with that of this product before operation. Adjust the volume to proper level during operation. Do not operate at over-power or high-volume level for extended time to avoid product malfunction.
2. If there is any abnormality during use (e.g., smoke, strange odor), please kill the power switch and unplug from power source, then send the product to the local after-sales service for repair.
3. Power adapter used, if any, should be approved by CCC certification or similar standards and comply with the power supply requirements.
4. Keep this product and its accessories in a dry and ventilated area. Do not store in a humid or dusty area for extended time. Keep away from fire, rain, liquid intrusion, bumping, throwing, vibrating, or from blocking any ventilation openings, to prevent malfunction.
5. The product must, when installed on walls or ceilings, be fixed firmly in place at adequate strength to prevent from falling.
6. Please abide by safety rules during operation. Do not use the product in places prohibited by laws or regulations to avoid accident.
7. Do not disassemble or repair the product unauthorized to avoid injury. If you have any questions or require any services, please contact our local after-sales service.

■ Label Meanings



This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law. This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (WEEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with WEEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

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About This Manual

This manual contains up-to-date technical specifications as of printing. However, specifications contained herein may not conform to your particular product since Takstar is constantly improving its products. Also, specifications, devices or accessories available may vary from region to region. If you have any questions, please contact our local sales outlet. For the latest version/more information, please visit our website: <https://www.takstar.com/>

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注意事项:

1. 本单为保修凭证, 请用户妥善保管, 如有遗失, 恕不保修或退换。

2. 保修期限制: 购买之日起十二个月内。

3. 除了不可抗力事件损坏外, 由本公司负责, 免费维修。

4. 如属保管不善或使用不当造成的损坏, 维修点将酌情收费。

5. 擅自拆卸维修者, 不予保修。

6. 以上保修条款仅限于中国市场适用 (不含港澳台地区)。

产品服务保证书

姓名: _____ 电话: _____ 地址: _____

商品: _____ 型号: _____ 购买日期: _____ 年 _____ 月 _____ 日

维修记录栏 (由维修员填写)	维修员签名	日期

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