储能系统上位机使用手册

User Manual for Energy Storage System Upper Computer

版本：1.0

Version: 1.0

成都极空科技有限公司

Chengdu Jikong Technology Co.LTD

目录

1、 概述(Overview)

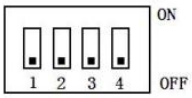
本操作手册专门为储能系统的上位机操作而编写，向用户提供详细的指导，使其能够充分了解和灵活运用储能系统的上位机功能。

This operation manual is specifically written for the operation of the upper computer of the energy storage system, providing users with detailed guidance to fully understand and flexibly use the upper computer functions of the energy storage system.

2、 储能系统配置(Energy storage system configuration)

（1）储能通信地址的配置采用 4 位拨码开关，以二进制方式设置地址范围为 0 到 15。用户可通过这 4 位拨码开关轻松配置通信地址，但仅 1 到 15 的地址可用于上位机通信。以下为详细的配置方式表格：

（1）The configuration of the energy storage communication address adopts a 4-bit DIP switch, and the address range is set in binary format from 0 to 15. Users can easily configure communication addresses through these 4-digit dial switches, but only addresses 1 to 15 can be used for upper computer communication. The following is a detailed table of configuration methods:



地址(Address)	拨码开关位置(DIP switch position)			
	1	2	3	4
0	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

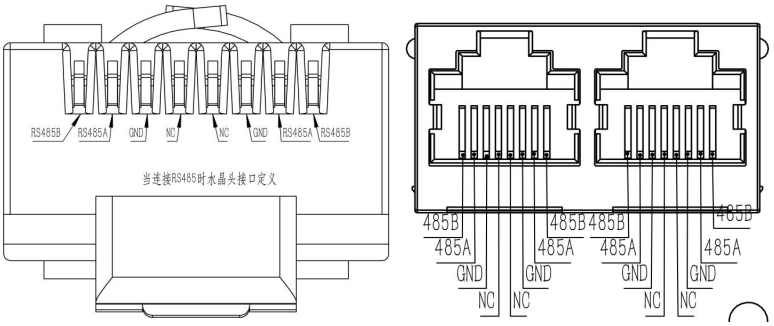
（2）打开 APP“参数设置”页面，检查“设备地址”显示和上述拨码开关设置一致，“串口 2 协议”设置为 1。

（2）Open the "Parameter Settings" page of the APP, check that the "Device Address" display matches the above dial switch settings, and set "Serial Port 2 Protocol" to 1.

3、 连接方式(Connection method)

（1）RS485 接口定义。接线前请悉知 RJ45 接口对应的线序，以便正确连接。

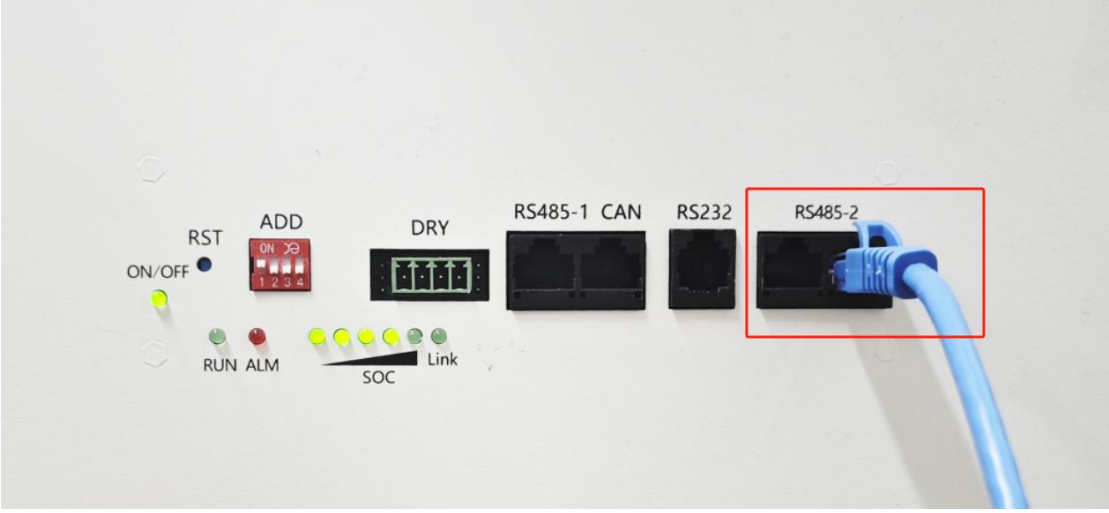
（1）RS485 interface definition. Please be aware of the wire sequence corresponding to the RJ45 interface before wiring, so that it can be connected correctly.



（2）使用 USB 转 RS485 模块转接线连接 RS485-2 的 RJ45 接口上，另一端连至电脑上。

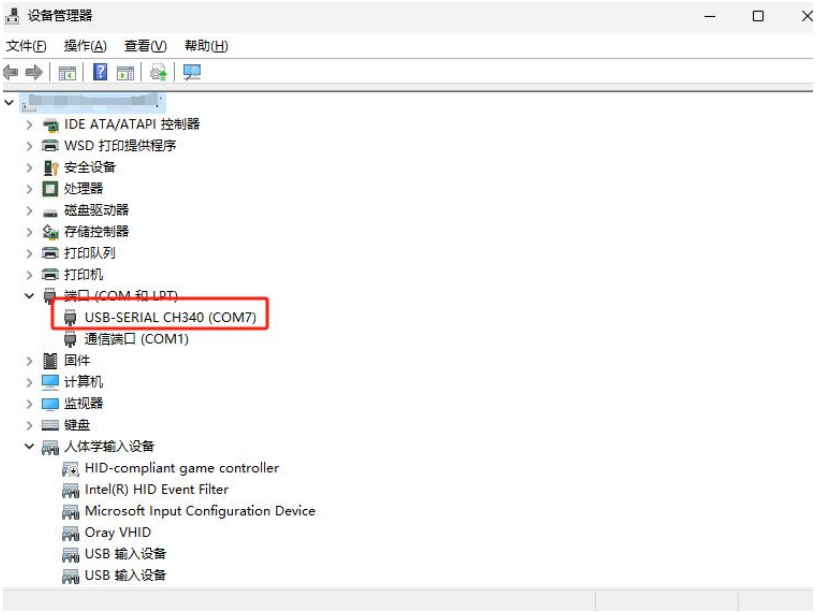
（2）Connect the USB to RS485 module adapter cable to the RJ45 interface of RS485-2, and connect the other end to the computer.

USB to RS485 connection cable (RJ45 interface)



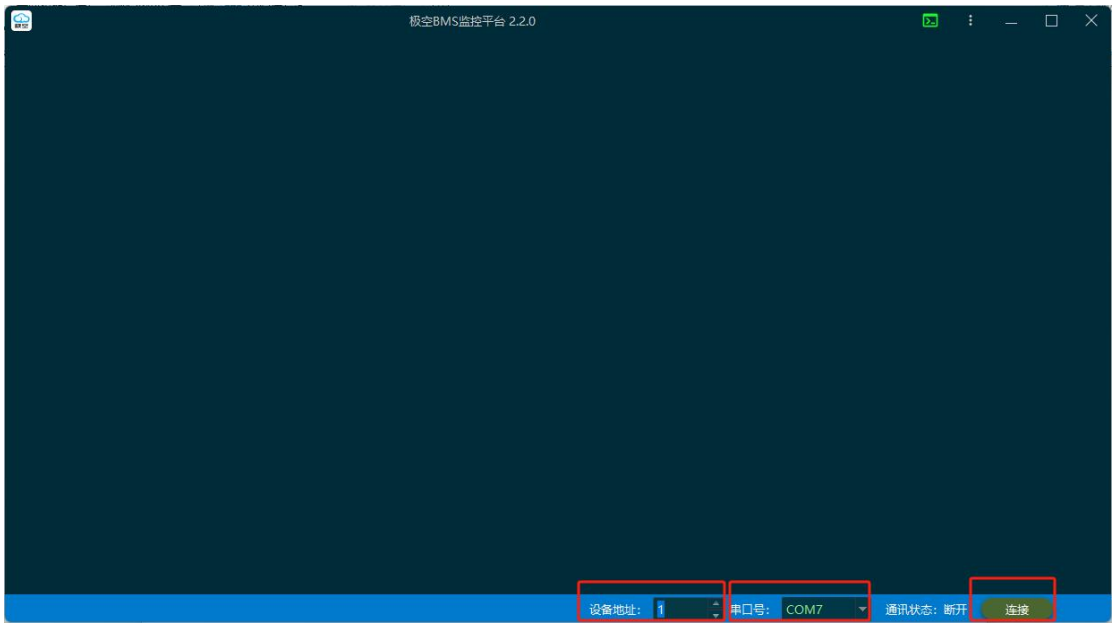
（3）模块插入电脑 USB 接口，检查设备管理器中模块工作是否正常，记住串口号 COM7。（每台电脑的串口号可能不同，只要是识别到了就是我们需要的串口。）

（3） Insert the module into the computer USB interface, check if the module in the device manager is working properly, and remember the serial port number COM7. (The serial port number of each computer may be different, as long as it is recognized, it is the serial port we need.)



(4) 打开上位机软件，在右下角填入上述操作步骤的设备地址和串口号，点击连接即可。

(4) Open the upper computer software, fill in the device address and serial port number for the above operation steps in the lower right corner, and click connect.



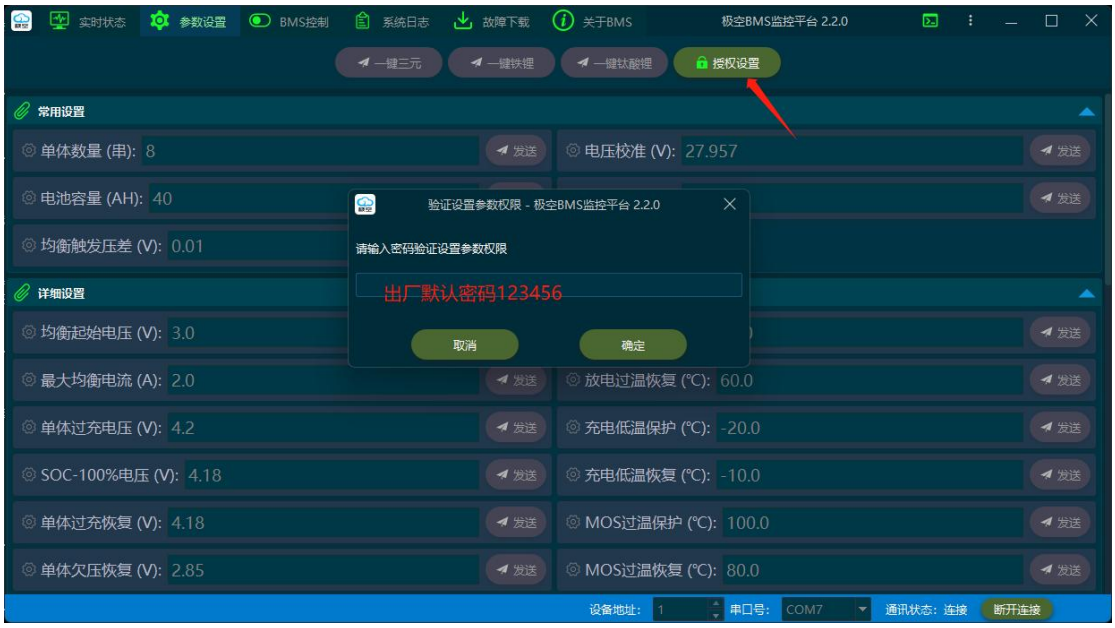
4、 上位机设置(Upper computer settings)

（1）实时状态页面，可查看电池电压、充电电流、异常告警、电池状态、均衡线组等。

（1）Real time status page, which can view battery voltage, charging current, abnormal alarm, battery status, balance line group, etc.

（2）参数设置页面，默认状态下无法修改任何参数，需要通过“授权设置”进行更改。保护板出厂默认密码：“123456”。

（2） The parameter settings page cannot modify any parameters by default and needs to be changed through "Authorization Settings". The default password for the protective board at the factory is "123456".

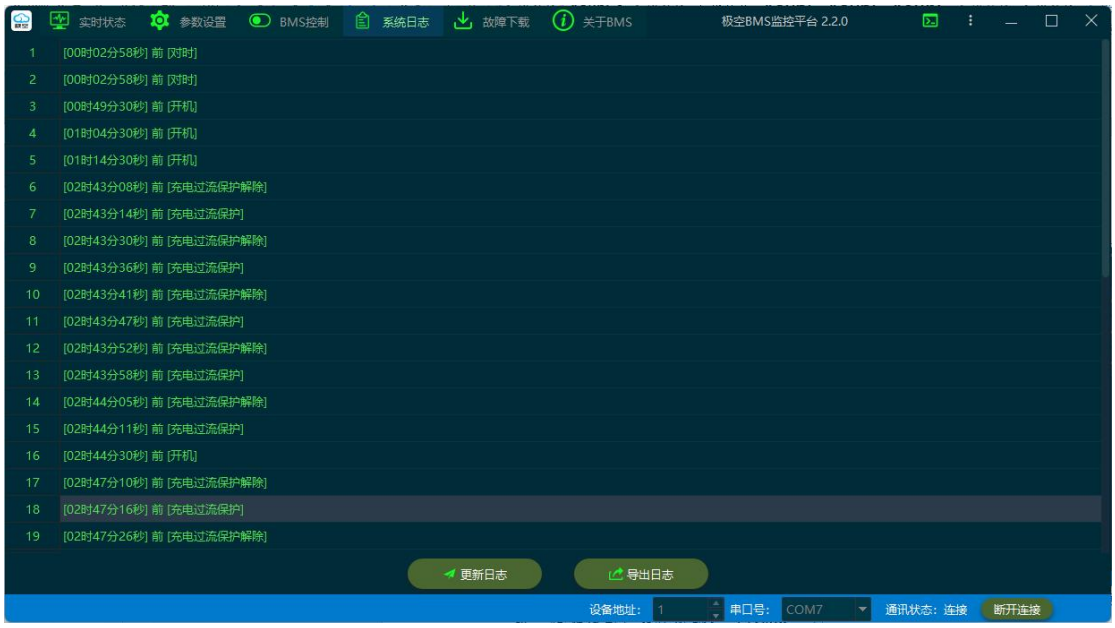


（3）BMS 控制页面，默认状态下无法修改设置，需要通过“授权设置”进行更改。保护板出厂默认密码：“123456”。

（3）The BMS control page cannot modify settings by default and needs to be changed through "Authorization Settings". The default password for the protective board at the factory is "123456".

（4）系统日志页面，“更新日志”按钮可将 BMS 内部日志更新到上位机显示，导出日志按钮可将当前所有日志导出至电脑指定文件夹内，格式为 xlsx，使用 excel 等软件可查看。

（4）On the system log page, the "Update Log" button can update the internal logs of the BMS to the upper computer for display. The Export Log button can export all current logs to the specified folder on the computer in the format of xlsx, which can be viewed using software such as Excel.

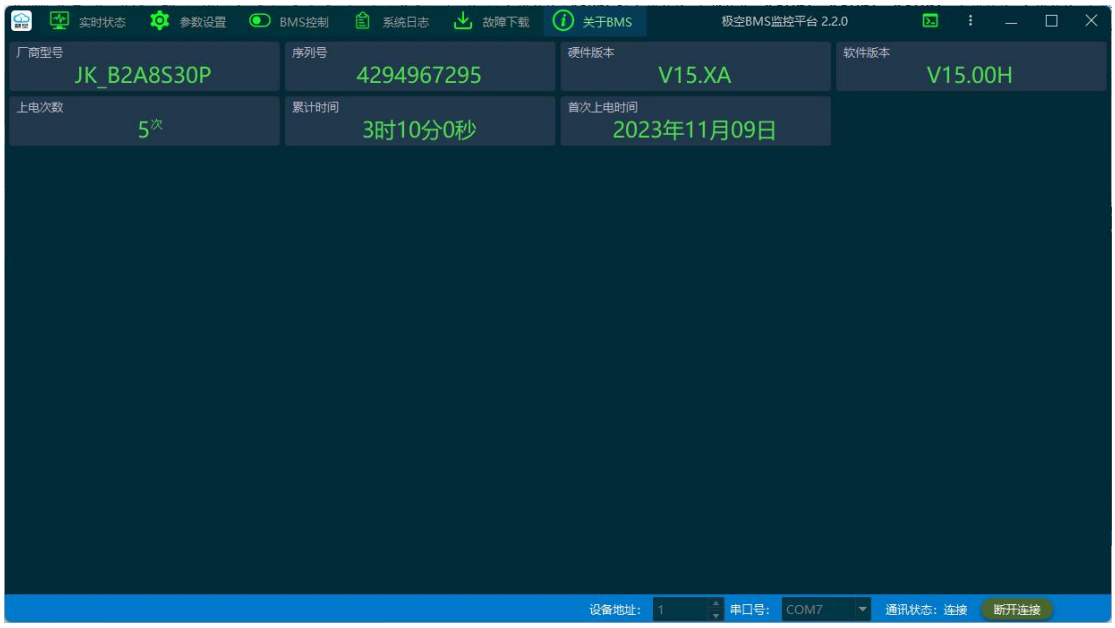


（5）故障下载页面，“故障下载”按钮可将 BMS 内部故障日志更新到上位机显示，“导出故障”按钮可将当前显示的所有故障日志导出只电脑指定文件夹内，格式为 xlsx，使用 excel 等软件可查看。

（5）On the fault download page, the "Fault Download" button can update the BMS internal fault logs to the upper computer for display. The "Export Fault" button can export all currently displayed fault logs to the specified folder on the computer, in the format xlsx, which can be viewed using software such as Excel.

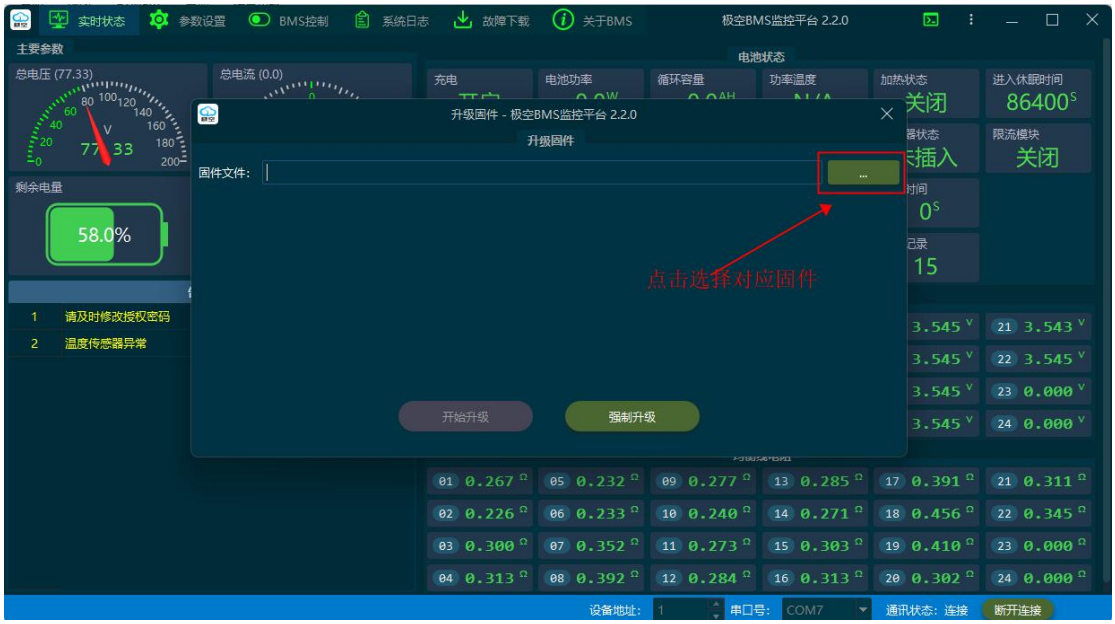
（6）关于 BMS 页面，展示产品的基本信息：型号、硬件版本、软件版本、上电时间等信息。

（6）Regarding the BMS page, display basic product information such as model, hardware version, software version, and power on time.



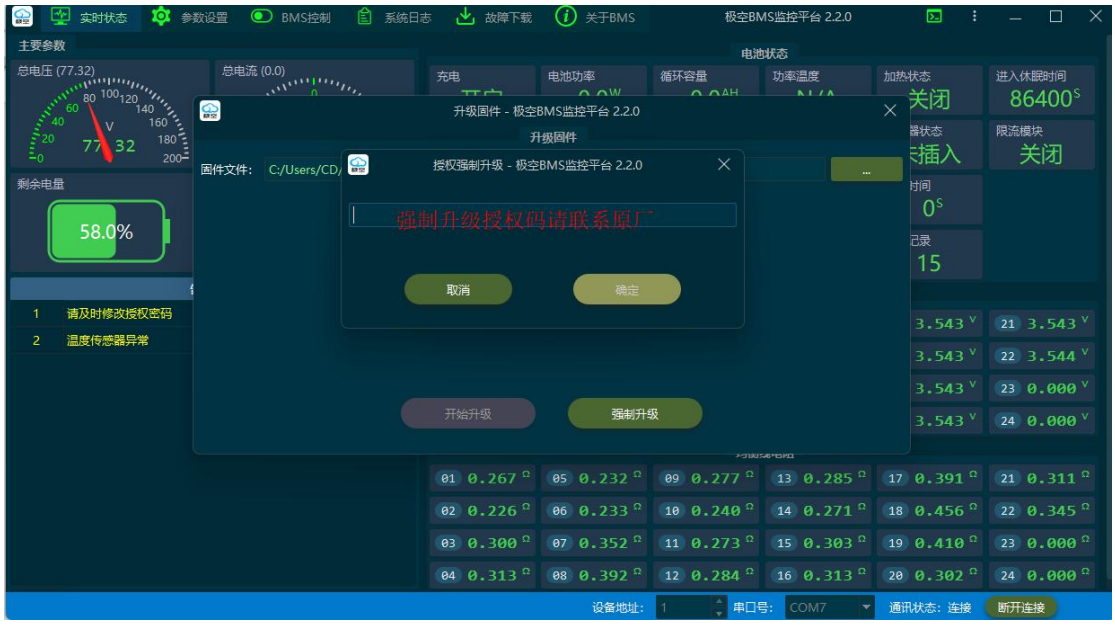
（7）固件升级功能，点击上位机右上角图标，点击“升级固件”，选择对应的固件即可正常升级，进度条结束则表示此次升级完成。

（7）Firmware upgrade function, click on the icon in the upper right corner of the upper computer, click "Upgrade Firmware", select the corresponding firmware to upgrade normally, and the progress bar ends to indicate that the upgrade is completed.



（8）强制升级功能，当设备变成砖后以及需要强制修改固件的情况下，可使用强制升级功能。选择强制升级的固件，点击强制升级，填入保护板原厂提供升级授权码，点击确定。再按下储能系统上 RST 复位按键，等待升级即可。

（8）The forced upgrade function can be used when the device becomes a brick or when firmware modification is required. Select the firmware to be forcibly upgraded, click on Force Upgrade, fill in the upgrade authorization code provided by the protection board manufacturer, and click OK. Press the RST reset button on the energy storage system again and wait for the upgrade.



5、 故障排除(Troubleshooting)

（1）检查模块、电脑、储能系统之间连线是否正确。

（1） Check if the connections between the module, computer, and energy storage system are correct.

（2）检查 USB 转 RS485 驱动程序是否安装。

（2）Check if the USB to RS485 driver is installed.

（3）通过手机 APP 检查保护板设置，保护板地址以及通信协议选择是否正确。

（3）Check the protective board settings, address, and communication protocol selection through the mobile app to ensure they are correct.