Super Parameter Programmer

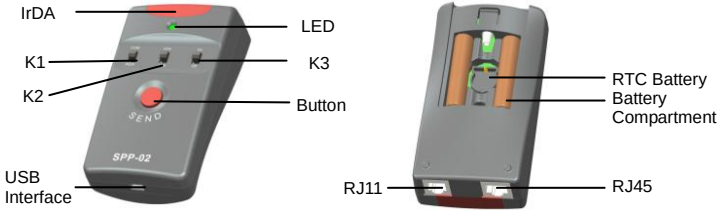
SPP-02

Characteristic

Super parameter programmer (SPP-02) is the simple, efficient and practical accessory for parameter configuration with the easy one button operation through wired or wireless way. Due to the new standard communication protocol, it applies to single or multi-machine products. The features as below:

- One button and one indicator are designed for simplicity and easy-to-operate.
- The parameter of controller can be set through RS232 (TTL), RS485 and IR.
- Wide applications, the control parameter and load mode can be set together.
- High compatibility, USB interface to PC.
- SPP PC software is used to configure and backup parameters visually, rapidly and conveniently.
- Dual power supply design. Applying to various environments, SPP-02 can be powered by battery or Micro-USB cable.

Features



Set Mode

K1	K2	K3	Function
MEM	IrDA	On	Wireless communication mode **(IrDA)**
MEM	Line	On	Wired communication mode
MEM	/	On	Parameter configuration mode
COM	Line	On	Communication converter mode
COM	IrDA	On	No function
/	/	Off	Power off

Note：When change K1 or K2, please firstly turn off SPP-02(K3:off)，then turn on K3 again.

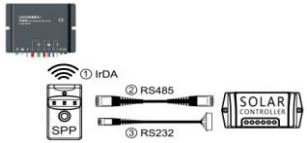
Description of LED indicator and Buzzer

LED indicator	Buzzer	State
Orange on solid	No beep	Set mode
Green on solid	No beep	Standby
Green flash once	One short beep	Normal startup SPP-02 to controller :Update successfully
Green flash ten times	One long beep	PC to SPP-02 :Update successfully
Red flash twice	Two short beep	Communication error
Red flash triple	Three short beep	The model is not matched or the irrational configuration
Green flash 5 seconds	One long beep	Test mode
Orange flashing	Ten short beep	No data

Operation

- **Parameter Setting**

1. Connect SPP-02 to the PC with the Micro-USB cable(CC-USB-USB-150U) according to the above diagram, then turn on SPP-02 (K3:ON).
2. Update the parameter of SPP-02 via the PC software (SPP) . **Detailed software operating please refer to PC software (SPP) operating manual.**



3. Choosing corresponding connection mode to update the parameter of controller via SPP-02. The steps as below：

(1) After SPP-02 normal startup, click button into **Set mode** (**Orange on solid**).

(2) Click button again, then **Green flash once** and **One short beep**, means the parameter is updated successfully.

(3) **Test mode**：Press and hold on the button for 5 seconds to alternately turn on or turn off the load in the **Test mode**. After 3 minutes, the device will quit the test mode automatically without any operation. In the **Test mode**, the SPP-02 can switch the load no matter whether it has loaded the configuration or not.

Note： ①Test mode will not change the load mode of controller that has set.

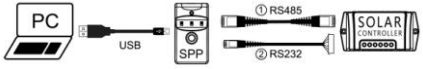
②Wireless communication mode needs 3 batteries (Size AAA).

③The suitable controller model refer to Table 1.

Table:1

Name	Connection mode	Suitable Model
IrDA	Wireless	LSxxxxBPLI、LSxxxxEPLI、TracerxxxxBPLI
RJ45	CC-RS485-RS485-150U	LSxxxxB、VSxxxxB、TracerxxxxB
RJ11	CC-TTL-TTL-150U	LSxxxxBPL、LSxxxxEPL、TracerxxxxBPL

- **Communication converter mode**



1. Choose corresponding connection line according to the above diagram, the mode and connection line refer to “Set mode” and “Table 1”.
2. SPP-02 can be used as the communication converter to connect the controller and Solar Station Monitor (PC software) , to establish remote monitoring.

SPP-02 parameter

Parameter	Parameter Values
Power Supply Voltage	5.0VDC
Battery	3 batteries (size AAA)
Button battery model	CR1220（The real-time clock will not be lost when replace battery）
Static Current	< 35 mA
Baud rate	115200bps(Wired communication mode)
	2400bps(Wireless communication mode)
Communication distance of IrDA	＜6m
Communication angle of IrDA	＜15°
Working temperature	-25℃～+55℃
Enclosure	IP30
Overall dimension	109mm x 60mm x 33mm
Net weight	80.1g

Technical parameter

Parameter	Default	Setting Range
Battery type	Sealed	Sealed/ Gel / Flooded /User
Charging mode	Voltage compensation	Voltage compensation /SOC
Battery Ah	200Ah	1～9999 Ah
Temperature compensation coefficient	-3mV/℃/2V	-9～0mV
Rated Voltage	Auto	Auto/12V/24V/36V/48V
Battery charging	100	20～100 (SOC Mode)
Battery discharging	30	10～80 (SOC Mode)
Load mode	Manual	Manual/Time/Light/Light + Time
LED Load mode	Manual	Manual/Time/Light/Light + Time 1/ Light + Time 2

The website to download PC software (SPP) , PC software (Solar station monitor) and Operation Manual, as below:

http://www.epsolarpv.com/index.php/Technical/download

Any changes without prior notice!

Version number：V1.1