Instruction Manual

SUNJE

SBP-07A2

It is recommended that only persons who have sufficient knowledge and experience such as system designers and responsible persons deal with this product after carefully reading the product manual.

1 The matters of safety

MARNING

- If the equipment is used in a manner not specified by the manufacturer. the protection provided by the equipment may be impaired.
- * Do not let the water touch the product.
- It may cause electric shock or fire due to malfunction.
- * When you check or maintain the product, make it sure you turn off the power.
- It may cause electric shock or fire due to malfunction.
- * The item should be fixed to the target tightly. Electric discharging or breakage might happen
- * Do not use the product at the place where dangerous material such as inflammable or ignitable material exists. This product is not the product of anti-explosive type.
- This device is made only for industrial uses. You need to ground the device beforehand. Otherwise, there are in case of malfunction, electric shock, or fire damage.

CAUTION

- Do not disconnect the controller cable with power applied.
- There is a possibility of electric shock or malfunction.
- Connect wires referring to the product manual. Wrong connection can cause failures.
- * For your proper cable connection, take a look at the manual [Installation & Connection] for references. Any disordered connection is detected, the malfunction might arise.
- All cables should be connected all the time. Please careful of cable disconnections. If power or communication cables got damaged, replace them immediately. Malfunction and fire danger may happen
- Do not install the device where the vibration can be detected. Any minor impact or vibration on the device, the malfuction or danger of accident might happen
- Do not use the item off the range of usage(Electrostatic elimination). Malfunction or danger of accident may occur.

2 Check the package contents

▶ Product compositions

The package includes the following products composition.





SPC-MT-1-001 AC 100V, 50/60Hz, 1.8m / 1ea Power Cable SPC-MT-2-001

AC 220V, 50/60Hz, 1.8m / 1ea

Ground Cable SGC-MT-6-001

1m /Ø4-Ø6[mm] /

1ea

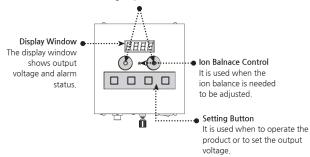


Signal Cable SUC-MT-2-001

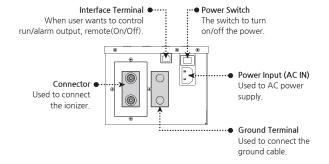
Nomenclatures of parts

Top Operation Indicator

If the product operates normally, the green LED lights up. If the product is either malfunction or stoppage condition. the red LED will light up and it is called "ALARM" condition.



Rear



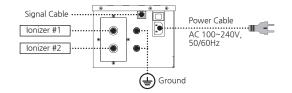
4 Installation and connection

MARNING

- * During installation, please try to avoid the area where the product might get (electrical) stress. There might be chances for cable breakage, electric shock, or fire explosion.
- * Please be sure to use a ground cable for safety purposes and we suggest you to use ground resistance smaller than 100Ω.

▶ How to connect

Please assemble the product through a reference image in below.



▶ How to connect interface (Signal Cable)

For your information, please consider the below specification chart for "Single Cable".



No.	Color	Function	Function Picture		Remarks	
1	Brown	Remote COM.		Run	Stop	No. 1 / 2 / 3
2	White & Brown	Remote Run	Input	No.1 No.2 No.3	No.1—No.2—No.3	Closed = Stop
3	Orange	Remote Stop				
4	White & Orange	Run/Stop (Alarm)	Output	Run # Closed= 25Ω(max)	Stop(Alarm)	Max load : 350V 0.12A (Indicate the
5	Green	State	Output	No.4 Close	No.4 Open	peak AC and DC values)
6	White & Green	Not Used				
7	Blue	Not Used				
8	White & Blue	Not Used				

► Connectable products

The SBP-07A2 (i.e. Power Controller) can be connected to the (multiple) products as below.

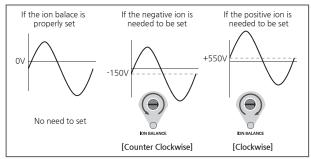
Ion B	alance	Туре	Model	Construction	Standard Operating Voltage
	Adjustable	lon Bar	SIB1		4.5kVac
\ A di			SIB1(N)	Direct	
Auju			SIB2	Coupled	
			SSB1		4kVac
No	Non- Adjustable Ion Bar SIB-ex Capacity SSBN Coupled	Capacity	7kVac		
Adju		IUII Ddl	SSBN	Coupled	/ KVaC



- * Try not to assemble with the product that is not properly specified to install. It will be causes of malfunction or operation disorder.
- * Please contact us if you want to use every different model(only with models in the table) in the connection. Connecting the product based on your own discretion, it can cause product failure and malfunction.

▶ Ion balance (Offset) : DC -150V ~+550V

The ion balance is possibly controllable via changing the output voltage offset. Refer to the image below and set the ion balance as you want.





- * The ion balance function is only available with "Direct coupled model".
- * Please set the offset voltage with suggested ion balance voltage standard.

5 How to set

▶ Run & Stop

Presas the run or stop button to operate or stop the product.



- If the product operates normally, the green LED lights up.





- If you press the stop button, then the run LED will turn off,





- If you press the run button, the green LED will light up.



* Please make sure whether the ionizer is properly connected before operating the devices, (Refer to "4 Installation and Connection")

▶ How to change output voltage

Any output voltage change is required, please see the following procedure.





- If you press up or down button for 2 seconds, FND will blink and you will be entered to setting mode.





- Please adjust your expected voltage level by pressing up or down button. (scale of 0.1kV will be changed by pressing either up or down button)





- After adjusting the voltage, if you press run button for 2 seconds, the set value will be applied.





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CAUTION

- * Try to stay in the standard voltage level, don't try to set voltage level exceeds its standard level. Otherwise, it will cause product malfunction or operation disorder,
- * For standard output voltage of product, please see the p.3 "Connectable products" as your reference.

▶ Alarm

It indicates an abnormal condition of the product.



- When alarm appeared, please follow these steps:
- 1) Power off the device
- 2) Removing the cause of the alarm
- 3) Repower on



* Possible Alarm initiation conditions

A-1: If more than 5mA of AC output currnent

A-2: If more than 125% of AC output voltage

A-3: If less than 75% of AC output voltage

A-4: If output short-circuit occurs.



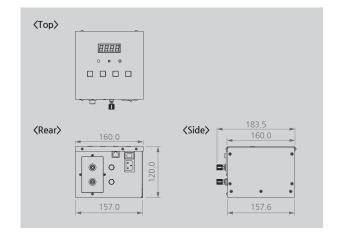
Alarm is appeared by ionizer's abnormal discharge and state. When alarm appeard, please repower on after sufficient check and removing the causes of the alarm, Unless solve a matter of substance, it can be appeared again,

6 Problem solving

▶ Checklist before called

Problem Identifying Problem		Solution	
	Is your power cable still plugged in?	Please re-plug the power cable and then turn the device on again.	
The product does not work.	Was the proper voltage level applied for this set-up?	Please use the proper level of power input for the device. (AC 100~220V, 50/60Hz)	
	Is the swith off at back of the device?	Turn on the power switch.	
There is no ionization.	Does the installed environment have too high/low level of humidity or temperature?	Please install the device upon the proper working specification.	
The ionizing performance	Can't possibly ground the device?	Please refer to 「Installation & Connection」 for(proper) grounding the device.	
has been decreased.	Any damages or cut on the cables?	You need to replace the cables if it gets cut or damaged.	

7 Dimensions



8 Specification

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Parameter		Remarks		
Input Power	AC			
Power Consumption				
0 1 10	AC 4kV~7.5kV(±7%) 55Hz(±5Hz), Less than 5mA		100V Digital step adj.	
Output Power	Ion Balance(Offset) : DC -150V ~+550V		Analog volume Contro	
lonizer connector				
D' 1	FND	Output Voltage		
Display	LED	RUN(Green), Alarm(Red)		
	A-1	If more than 5mA of AC output currnent		
	A-2	If more than 125% of AC output voltage	When the alarm is	
Alarm	A-3	If less than 75% of AC output voltage	appeared, power off the output	
	A-4	If output short-circuit occurs.		
	RUN	Operation start after stoppage		
D CA4/	STOP	Output power off(stop)		
Button S/W	UP/DOWN	Output voltage control (press the button for 2 seconds)	0.1kV Adj.	
Temperature	Use	0~50℃ / 10~90% RH	No condensation	
/ Humidity	Preservation	-20~70℃ / 10~95% RH	/ No freezing	
	Remote On	No. 1 / 2 - Closed	No. 1 / 2 / 3	
	Remote Off	No. 1 / 3 - Closed	Closed-Off	
Interface	Run State	No. 4 / 5 - Closed = 25Ω(max)	Max load : 350V 0.12A (Indicate the peak AC and DC values)	
	Alarm State	No. 4 / 5 - Open		
Weight				
Dimension [mm]	160(W) X 118.8(H) X 207(D)			
Main body material	EGI			
Mounting Method	Desktop / Wall			
Warranty				

notice for the improvement of the product.

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