Instruction Manual

SUNJE

SNC-21 & SBP-21C



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.
- * Secure the product firmly when you want to secure it. There is a possibility of accident due to fall-over or malfunction, etc.
- * 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.
- \star This device uses compressed air(CDA). Do not use the device if the CDA cannot be allowed to use.

In some cases, the product malfunction or danger of accident might happen.

CAUTION

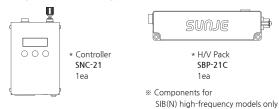
- * Do not disconnect the SPN-21C cable and controller with power applied. There is a possibility of electric shock or malfunction.
- * Connect wires referring to the product manual. Wrong connection can cause failures.
- * To connect a cable properly, take a look at the manual ^rInstallation & Connection for references. Any disordered connection is detected, the malfunction might arise.
- Take precautions as cables of the adaptor, the power line and communication line of each product may disconnect. If the cable is damaged, replace it immediately.
- * 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 product for the purpose outside of the range of the product use.

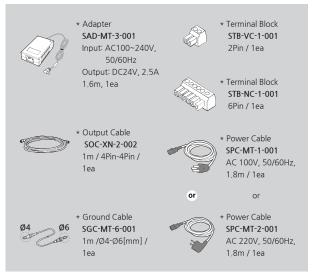
 If the product is used for the purpose outside of the range of the use, it can result in the trouble or the shortened service life. Or an unexpected problem may occur.

2 Check the package contents

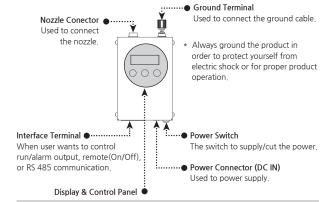
▶ Product compositions

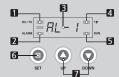
The package includes the following products composition.



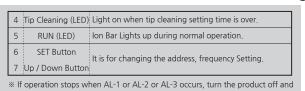


3 Nomenclatures of parts





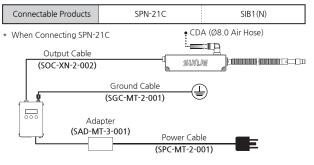
No	Name	function		
1	RX / TX (LED)	Light on when using RS-485.		
2	Alarm (LED)	Light on when Alarm occurs.		
3	FND Display	⟨A-01 ~ 16⟩: Address ⟨AL-1⟩: When high voltage error, display and operation stop. ⟨AL-2⟩: When over-discharge of electrode or leakage occurs, display and operation stop. ⟨AL-3⟩: When tip cleaning setting time is over.		



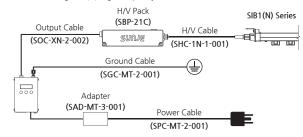
4 Installation and Connection

▶ How to connect

Refer to the figure below to connect the product.



* When Connecting SIB1(N) High Frequency Models



▶ How to connect the Interface

For the specification of the Interface to be used, refer to the table below.

INTERFACE	RMS
6 5 4 3 2 1	② ①

	Output	1	High Voltage Abnormal Alarm	Alarm Nomal
		2	Tip Cleaning Alarm	Alarm Nomal
Interface		3	Signal Ground	-
interrace		4	Run / Stop State	Run Stop
	Input	5	Remote Input	Stop Run
		6	Remote Com	
-	46	1	RS485+	-
RMS		2	RS485-	-

MARNING

* Do not tamper with the set value. The malfunction might arise.

Setting order



Ionizer Running





Duty Set Up

- Duty are from 30 to 70. (Daily change possible)
- The Duty can be changed by pushing up/down





Positive Pulse Width Set

- Positive Pulse Width are from 1 to 7.
- The Positive Pulse Width can be changed by pushing up/down button.





Negative Pulse Width Set

- Negative Pulse Width are from 1 to 7.
- The Negative Pulse Width can be changed by pushing up/down button.





O SET

Tip Clean Mode on / off

On: Tip cleaning alarm function is activated. Off: Do not used tip cleaning mode.



- The Tip Cleaning Alarm can be changed by pushing up/down button.

ELCoF



Tip Cleaning Time Set Up

- It is available to set time from 1day to 60days.
- The time can be changed by pushing up/down







- no : Nomal - F : Reverse



- Communication addresses are from 1 to 16.
- The address can be changed by pushing up/down button.

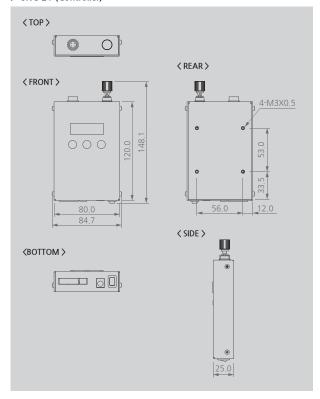
6 Problem solving

▶ Checklist before called

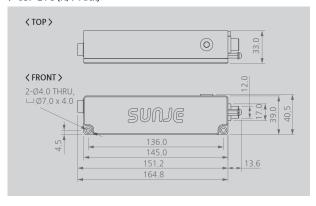
Problem	Identifying Problem	Solution
The product	Is your power cable still plugged in?	Please re-plug the power cable and then turn the device on again.
does not work.	Was the proper voltage level applied for this set-up?	Please use the proper level of power input for the device. (AC 100~240V, 50/60Hz)
There is no	Is there any conductive material around the device?	Please refer to 「Installation & Connection」 for setting the proper target distance from the device.
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	Can't possibly ground the device?	Please refer to ^r Installation & Connection _J for grounding the device.
performance has been decreased.	Any damages or cut on the cables?	You need to replace the cables if it gets cut or damaged.
	Any contamination on the discharge needle?	Please refer to 「Maintenance」 for cleaning the discharge needle.

7 Dimensions

► SNC-21 (Controller)



► SBP-21C (H/V Pack)



8 Specification

Para	meter	Description / Value	
Input Power		DC 24V (±5%)	
Power Consumption		Max. 4.8W	
High Voltage		Pulse AC 6.4 ~ 15kVpp	
Ion-Generation Method		Corona discharge	
Connector		Power (DC24V) : DC JACK RS-485 & Interface : Terminal Block 3.81mm Pitch	
Operating Distance		50 ~ 1,000mm	
Operation Circumstance		0℃~+50℃(32°F~122°F), 35%~85% RH	
	Alarm	High Voltage Alarm, Tip Cleaning Timer Warning	
Function	Interface	- Run/Stop State: Run-Closed / Stop-Open - High Voltage Alarm: Normal-Open / Alarm-Closed - Tip Cleaning Timer Warning: Normal-Open / Alarm-Closed - Remote Input	
	RMS	Real Monitoring System (RS485)	
Warranty		1 year	

^{*} The appearance and specification of the product may be changed without prior notice for the improvement of the product.

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