



SBC-2PN



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.



Power Controller SBC-2PN





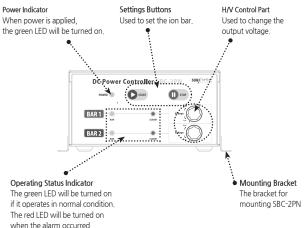
Power Cable SPC-MT-2-001 AC 220V, 50/60Hz, 1.8m / 1ea

\* Signal Cable SUC-MT-2-001 10m / 1ea

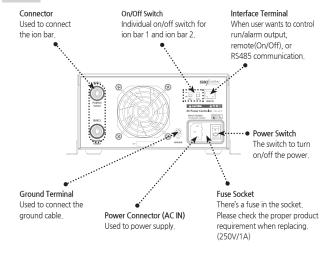
SGC-MT-2-001 Ø4 - Ø4 / 1m / 1ea

## **3** Nomenclatures of parts

## Front



#### Rear

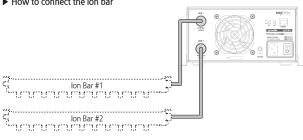


## 4 Installation and connection

#### CAUTION

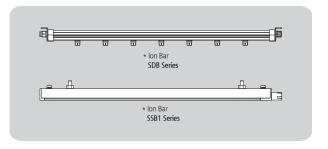
- \* During installation, please try to avoid the area where the product might get(electrical) stress. There might be chances for cable breakage, electric shock, or fire explosion.
- \* After checking product, you should verify which power supply specification. A proper supply power use is required.
- If connect the power improperly, then might cause fire or electric shock,
- \* Please be sure to use a ground cable for safety purposes,
- \* The discharge needle is very sharp at the edge. Do not phsically(directly) touch the discharge needle.

## ▶ How to connect the ion bar



#### Connectable Ion Bar

Power controller SBC-2PN can be connected to the ion bars as below.



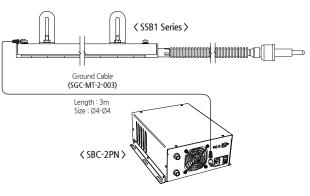


Don't try to connect with the ion bar that is not properly specified to install, It will be causes of malfunction or operation disorder,

#### ▶ Ground connection

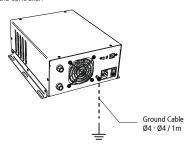


Connect a power controller socket in the rear to M4 ground bolt(SSB1 Series Ion Bar) with the ground cable. But, when the metallic object is grounded, it is not necessary to "Ground" connect the object,



\* Function grounding cable is included in the SSB1 Series compositions.

When you can not find power supply connection, you can use the ground terminal which is located at the back of the controller.



## **5** How to set

refer to the table below.

### ▶ Interface(Signal Cable) specifications For the specification of the signal cable to be used,

Ion Bar 2



| NO. | Color          | Function              | Output                         | Picture | Remarks |
|-----|----------------|-----------------------|--------------------------------|---------|---------|
| 1   | Brown          | Start                 | _                              | ①~~°¬   |         |
| 2   | Brown / White  | Start                 | -                              | 2       | Input   |
| 3   | Orange         | Stop                  | _                              | 3-0~07  | Input   |
| 4   | Orange / White |                       | -                              | 4       |         |
| 5   | Green          | Ion Bar 1             | Photo Relay Output             | 5-0~07  |         |
| 6   | Green / White  | High Voltage Abnormal | (Normal - Open, Alarm - Close) | 6       | 0.45.4  |

High Voltage Abnormal (Normal - Open, Alarm - Close)

Photo Relay Output

#### ▶ How to operate

Blue / White

Blue

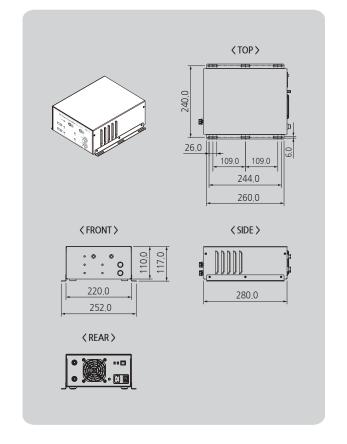
| NO. | Picture  | Descriptions   |  |
|-----|--|--|--|
| 1   | DC Power Controller SEC 7911 Daysin                          | Please push start button on the front of<br>SBC-2PN to operate ion bar.<br>(By pushing the start button,<br>the run LED lights on and working) |  |
| 2   | lon Bar Electrostatic Voltage Metor electrified body(Target) | When the target pass through the ion bar, measure the electrostatic voltage of the target by electrostatic voltage metor.                      |  |
| 3   | DC Power Controller SIC-SPNI BASING                          | Depending on the measured current value,<br>maintain a management voltage via<br>adjusting H/V lever.  |  |
| 4   | DC Power Controller SEC. 1991 Ing/Inde                       | Please push stop button on the front of<br>SBC-2PN to stop ion bar.<br>(By pushing the stop button,<br>the alarm LED lights on and stop)       |  |

## 6 Problem solving

#### ▶ Checklist before called

| Symptom                    | Confirmation Matter  | Matters of Management   |  |
|----------------------------|--|---|--|
|                            | 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<br>power input for the device.<br>(AC 100~240V, 50/60Hz) |  |
|                            | Is the swith off at back of the device?  | Turn on the power switch.   |  |
|                            | Is a fuse broken?  | Replace the proper fuse immediately. (250V, 1A)   |  |
| 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<br>decreased.     | Any damages or cut on the cables?  | You need to replace the cables if it gets cut or damaged.                               |  |

## **6** Dimensions



## 7 Specification

| Parameter              |        | Description / Value                     | Remarks      |  |
|------------------------|--------|---|--------------|--|
| Input Power            |        | AC 100~240V, 50/60Hz                    |              |  |
| Output                 | Port 1 | DC +8kV ~ +11kV                         | - Adjustable |  |
| Voltage                | Port 2 | DC -8kV ~ -11kV                         |              |  |
| Power Consumption      |        | Max. 35W                                |              |  |
| Current Consumption    |        | Max. 159mA                              | AC 220V      |  |
| Weight                 |        | 4.5kg                                   |              |  |
| Main Body Material     |        | EGI                                     |              |  |
| Output Port            |        | 2 Ports                                 | H/V Connecto |  |
| Operation Circumstance |        | 0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH |              |  |
| Dimensions             |        | Please refer to dimension drawing       |              |  |
| Interface              |        | Run, Stop, Alarm Ch1, Alarm Ch2         |              |  |
| 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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