

# INSTRUCTION MANUAL

AC Adaptor for Static Remover

## ER-VAPS1

MJE-ERVAPS1 No.0089-69V

Please read this Instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.

### 1 OUTLINE

- This product is an AC adapter which is designed for use with the **ER-VS02**, **ER-Q** spot type ionizer.

### 2 SPECIFICATIONS

Designation	AC Adapter for <b>ER-VS02</b> , <b>ER-Q</b>
Item	Model No. <b>ER-VAPS1</b>
Input voltage	100 to 240V AC, 50/60Hz
Output voltage	24V DC510 %
Output current capacity	750mA
Ambient temperature	0 to +40°C, Storage: -10 to +70°C
Ambient humidity	35 to 65% RH, Storage: 35 to 65% RH
Weight	120g approx.
Operating altitude	2,000m or less (Note 1)
Contents	AC adapter with wiring connector: 1 pc. AC adapter Manufactured by ENG ELECTRIC (Note 2) Model: 6A-181-WP24 Wiring connector Manufactured by MOLEX Model: 5557-08R Wiring connector terminals: 6 pc. Manufactured by MOLEX Model: 5556T Cable for grounding terminal wiring: 1 pc. (cable length approx. 0.65 m)

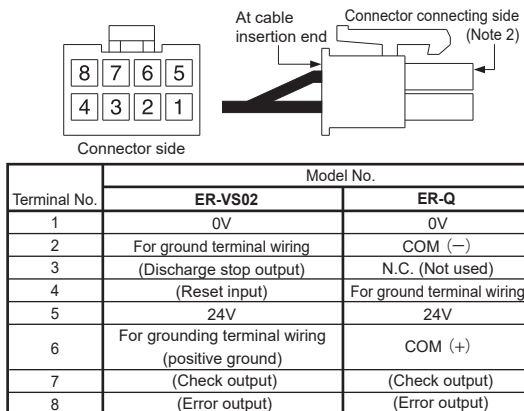
Notes: 1) Do not use or store the device in an environment where the air pressure is higher than the atmospheric pressure at an altitude of 0 meters.

Notes: 2) Manufacturer address:  
5F, No. 536, Sec.1, Minsheng N. Rd, Guishan Dist.,  
Taoyuan City 333016, Taiwan, China

### 3 CAUTIONS

- This product is designed for use in industrial environment.
- Do not use this product outside the scope of the specifications. Doing so may result in accidents or failures. Also, it may considerably shorten the life of this product.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- Do not move the product with the power plug connected. Doing so may damage the power cord, causing a fire or electric shock.
- Do not throw this into fire, otherwise it may explode or emit toxic gases.
- Do not allow the product to come into direct contact with organic solvents such as thinner or with water, oil or grease.

### 4 CONNECTOR WIRING DIAGRAM



Notes: 1) Names in brackets are input and output signal names for the **ER-VS02** spot type ionizer. If using the input and output signals, use the accessory wiring connector terminals to connect the signal pins to the external equipment. Use a separate cable for connecting to the external equipment. In addition, if not using the input and output signals, do not insert anything into the connector.

2) Note that the pin layout which appears on the check plate which is attached to the AC adapter represents the layout when looking from the end of the connector.

### 5 WIRING LAYOUT

#### ○ ER-VS02

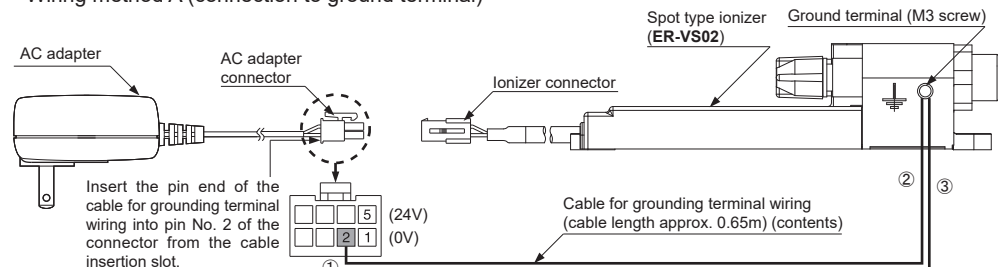
- If using the AC adapter (**ER-VAPS1**), the reference for the **ER-VAPS1** must be set so that it matches the deionizing level reference for the ionizer main unit.
- There are three wiring methods available. Use wiring method A, B or C depending on the operating environment in order to connect the supplied cable for connecting the ground terminal.
- If the specified wiring layout is not used, it may not be possible to determine the reference level for deionizing, and the ion balance may become unstable and errors may occur.

#### Wiring method

- 1) Connect the pin end of the cable for grounding terminal wiring to pin No. 2 (for a +ground, pin No. 6) of the connector for the AC adapter (**ER-VAPS1**).
- 2) Connect the round pin end of the cable for grounding terminal wiring to the ground terminal of the spot type ionizer (**ER-VS02**). (Refer to wiring method A.) For a direct ground connection, refer to wiring method B. For a +ground connection, refer to wiring method C.
- 3) Ground the ground terminal of the **ER-VS02** to the enclosure.  
(Use a separate cable for making the ground.)

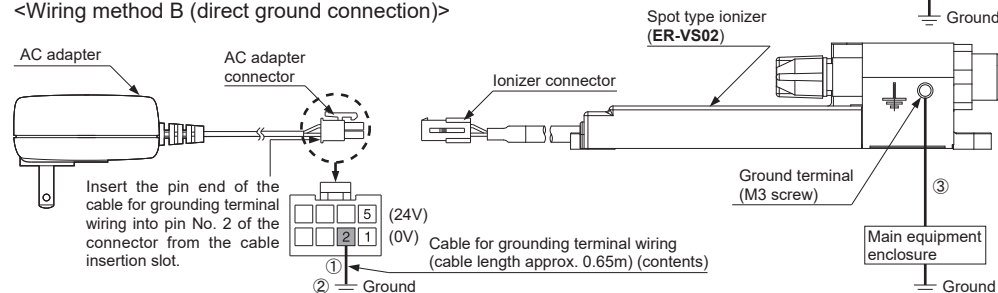
When inserting the supplied cable for grounding terminal wiring into the connector, make sure that it is inserted correctly.  
A special tool is required for disconnecting the cable for grounding terminal wiring from the connector.

#### <Wiring method A (connection to ground terminal)>



\* Pin No. 2 is connected to pin No. 1 (0V) of the ionizer connector.

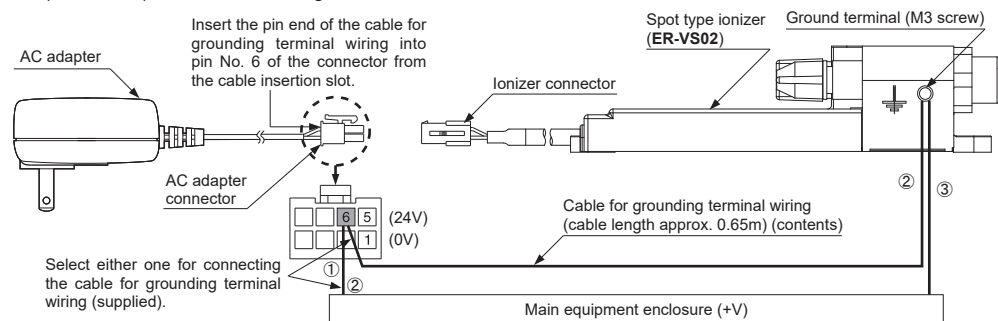
#### <Wiring method B (direct ground connection)>



\* Pin No. 2 is connected to pin No. 1 (0V) of the ionizer connector.

#### <Wiring method C (+ground connection)>

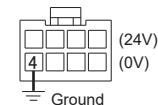
- If the enclosure of the equipment which the spot type ionizer (**ER-VS02**) is connected to is grounded at the +side of the power supply, insert the pin end of the cable for grounding terminal wiring to pin No. 6 of the connector for the AC adapter (**ER-VAPS1**) as shown in the diagram below.



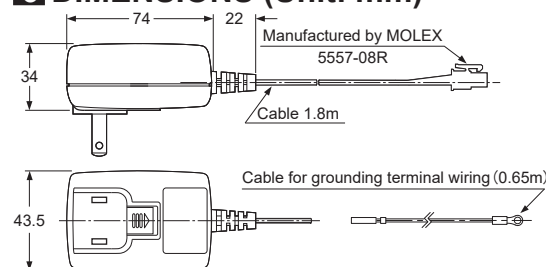
\* Pin No. 6 is connected to pin No. 5 (24V) of the ionizer connector.

#### ○ ER-Q

- Pin No.4 is connected to an ground.



### 6 DIMENSIONS (Unit: mm)



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