

DESCRIPTION

Palm-sized electrostatic measuring device ideal for checking ion balance and Sensor for polarity of static charge.
Static Super Scale

FEATURES

Measuring polarity and intensity of static charge on parts and assembly lines
Checking ion balance performance of various ionizers

TECHNICAL SPECIFICATIONS

Measuring range static voltage $\pm 0 \sim \pm 1.49$ kV (Low range)

Measuring range $\pm 1.0 \sim \pm 20.0$ kV (High range)

Measuring Distance Ion balance voltage measuring range $0 \sim \pm 200$ V
25 mm ± 0.5 (between charged object and field meter)

Accuracy $\pm 10\%$

Ambient conditions $10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, 680%RH or lower

Display Power Large LCD display (Digital and bar graph)

9V, 6F22Y manganese battery: 1PCE (Life: Approx. 30hours)

Weight with battery Approx. 140g without ion balance plate (Ion balance plate : Approx. 30g)

Case material Conductive resin (ABS)

Charge plate for ion balance measurement: 1PCE

Ground cord : 1PCE (w/ alligator clip)

Accessories Battery: 1PCE (006P)

Soft case : 1PCE

Applications For checking the performance of ionizers, locating and measuring electrostatic charge build-up deciding best location for installing ionizers and testing their efficiency etc.





Dimensions:



3



Multifunctional static field meter AE-770 with an incorporated one-chip microcomputer

Sensor for determining electrostatic charge levels

Focus-Ring LED lights show you the right measuring distance

Charge plate unit for ion balance measurement is included in the package

CE RoHS
Compliant with CE and RoHS directives

If the maximum voltage reading limit of $[\pm 22.0]$ has been continuously exceeded, the sensor might be damaged.

Err
The above message appears during sensor failure

Static charge on its user interferes the measuring accuracy. Please ground the unit with its ground wire.

1m

Alligator clip

Four color-coded buttons to switch measurement modes.

The unit comes with a handy, soft carrying case.

To change the battery...
Open the lid on the back and connect the plug to the battery. Battery (1PC) is supplied in the package.

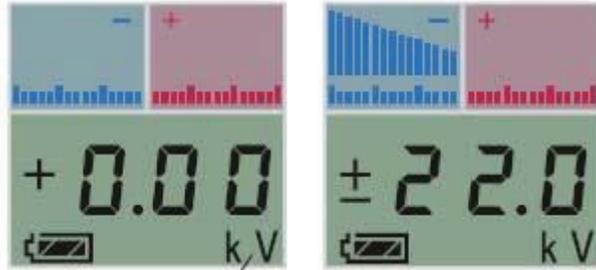
005P 9V



Function to check the static charge

Static charge measurement mode (Standard mode)" to check if the object is statically charged.

The digital numerical value and the bar graph displayed on the LCD indicate the static voltage on the target object. AE-770 is calibrated for the voltage range 0 to



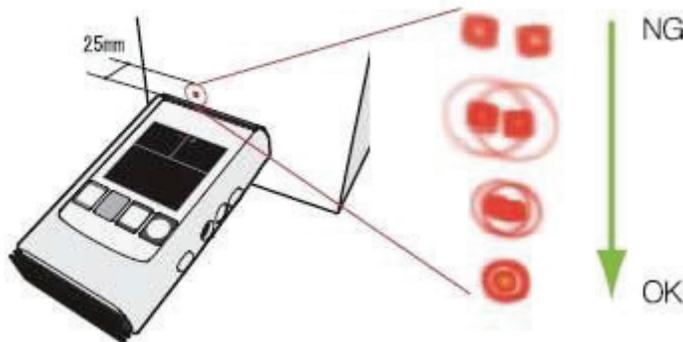
If the reading blinks at [±22.0] with a continuous warning sound during the static charge measurement, maximum voltage reading limit has been exceeded.

The unit of measurement : kV

For accurate measurement, make sure to ground AE-770 with its ground wire.

"Focus-Ring LEDs" show you the proper measuring distance.

The measuring distance between AE-770 and the target object needs to be 25mm±0.5mm. This measuring distance can be easily checked by "Focus Rings" beamed from the two red LEDs on the sensor side of AE-770. Position AE-770 where the two red light beams converge as one concentric circle for accurate measurement.

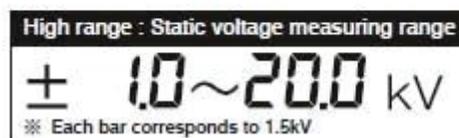
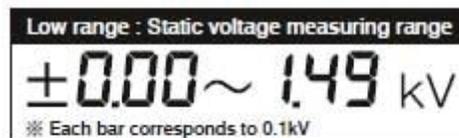


"Automatic ranging digital display"

How to activate "standard mode"



Press "POWER" button once and the unit will be set to "static charge measurement mode (standard mode)."



While



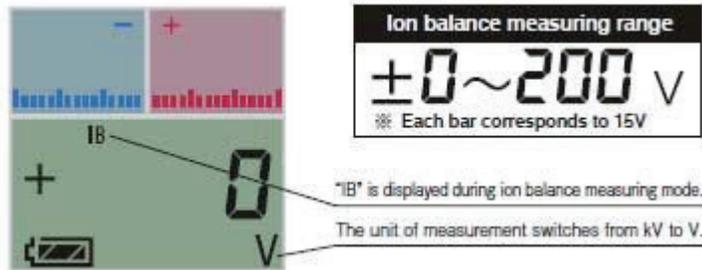
in standard mode, the decimal point is automatically set to a right position.



Function to check the ion balance of ionizers

"Ion balance measuring mode" to check the performance of ionizers.

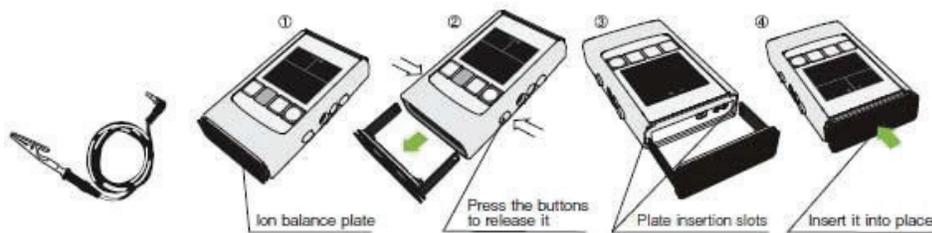
AE-770, designed to be compact and lightweight, making it ideal for periodic verification of ionizers, including those installed on hard-to-reach places like automated machinery or workbenches. AE-770 can be used to measure low voltages up to 200V in the ion balance mode.



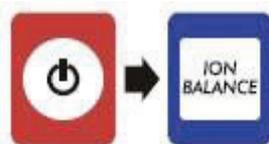
Installing "the ion balance plate" before measurement.

Before starting ion balance measurement, install the ion balance plate to the top end having the sensor.

For accurate measurement, make sure to ground AE-770 with its ground wire.



How to activate "standard mode"



Turn AE-770 on by pressing POWER button and then press ION BALANCE button.

The ion balance plate is kept on the bottom end.

The ion balance plate can be kept attached to the bottom end when not in use.



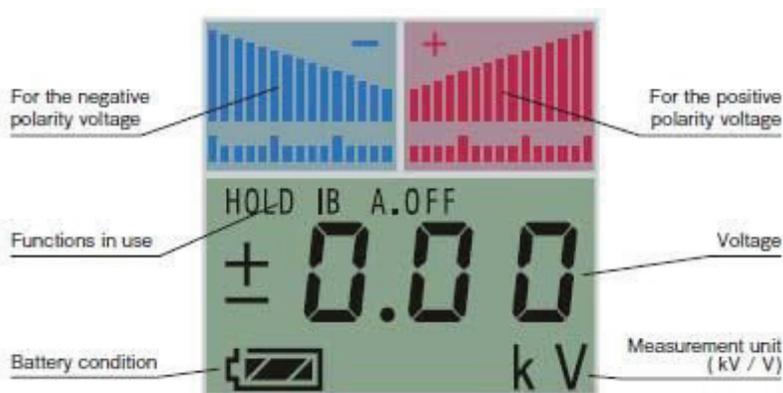
Easy-to-see large LCD display

"Wide LCD display" with three sections.

The upper left section displays bar graph in blue to indicate negative polarity voltage.

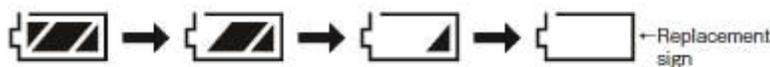
The upper right section displays bar graph in red to indicate positive polarity voltage.

The lower section display shows reader-friendly numerical values, voltage measurement unit, and functions in use.



"Battery condition display" to know when to replace the battery.

The battery condition icon changes in 4 stages as the battery level decreases. Replace the battery when display shows the battery to be empty.



The life of the included 9V, 6F22 Manganese battery : Approx. 30hours.

"LED lighting function" to read measurement values in the dark.

Switch on and off the LCD backlight by the POWER button.

Turn off the LED: Keep POWER pressed for less than 1 sec or 3-5 sec.

When turned on to the standard mode ... 1 beep

AE-770 indicates its operating status by beep sound.

Beep sound represents the following conditions:

When turned on w/o auto power off function ... 3 beeps

Auto power off indication ... 5 beeps

Over range ... 1 long beep

Turn on the LED : Keep POWER pressed for 1-3 secs or more than 5 secs.