

# ELECTROSTATIC VOLTMETER

## MODEL EV-103

### ● Features

#### ▶ 3-mode measurement

- Normal mode (instantaneous value)
- Peak value hold mode
- AC potential mode

#### ▶ High sensitivity and accuracy

- 3 1/2 digit indication, 10V resolution

#### ▶ Easy adjustment of measuring distance

- Measuring position and distance can be set by red LED light, assuring high reliability measurement

#### ▶ Compact and light weight

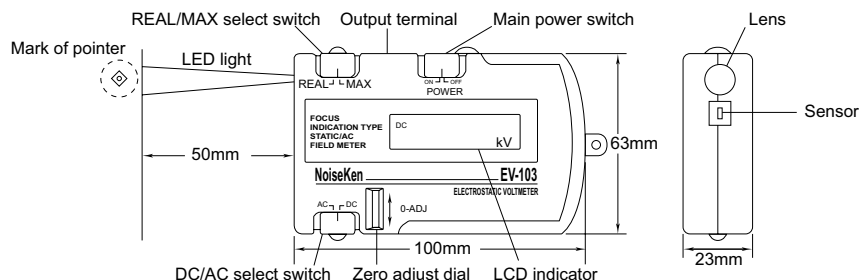
- Portable size equivalent to telephone card

#### ▶ Output terminal provided

- Connectable to recorder etc.



### ● Operating elements & procedure



1. Select a measurement mode by sliding DC/AC select switch and Real/Max select switch.

**DC-REAL:** Indicates the electrostatic potential (DC) of a charged object at the time.

**DC-MAX:** Holds and indicates the peak value of electrostatic potential of a charged object within the measuring time.

**AC:** Indicates AC potential. (REAL/MAX switch is set free.)

2. Turn Sensor of the meter toward the charged object to be measured and bring it near to the prescribed measuring distance (50mm). At this time, indicated value on LCD display is the surface potential of the charged object.
3. When outputting data, connect a recorder etc. to Output terminal using the attached lead wire (3m).

### ● Specifications

Parameters	Specifications
Measurable potential range	0.00 (AC0.02V)~±19.99kV (Over-scale indication 1b.bb)
Measurement accuracy	±5%rdg ±2 digit, 10V resolution
Peak holding time	Typ. 30s/dot, 19kV
Measuring distance	50mm (between the object and sensor)
Measuring distance adjustment	Red LED light focus adjustment
Mode change	Manual slide switch
Polarity indication	(-) sign for only negative polarity
Battery consumption check	DC (AC) indication blinks
Power supply	One DC1.5V UM-3 alkaline battery, Continuous 10 hours
Output	1V at 10kV, output-impedance 100Ω
Dimensions and weight	(W)106 x (D)67 x (H)23 mm, 90g (including battery)
Accessories	DC1.5V UM-3 alkaline battery, Output lead wire (3m), Case