

Digital static meter (KSD-1000/KSD-2000)



Electronic device assembly processes involve a number of objects charged at kV-level voltage, such as resin-molded products and films. This digital static meter is suitable for process with relatively high-managed voltage of static.

The meter enables switching between measuring ranges, which means both low-voltage static on electronic devices and high-voltage static in the manufacturing processes of products such as resin-molded products, films and printed-wiring boards can be measured.

Features

- Capable of measuring low-voltage to high-voltage static.
- Built-in ultrasonic measurement distance sensor ensures high-precision measurement with accurate setting of the measurement distance.
- Allows switching between measuring ranges based on the size of the object and the voltage level.
- The separate probe allows the value to be checked at the user's fingertips during measurement. (KSD-2000)
- Permits switching between peak hold measurement and continuous measurement.
- Capable of memorizing measured voltages, which can be displayed at any time.

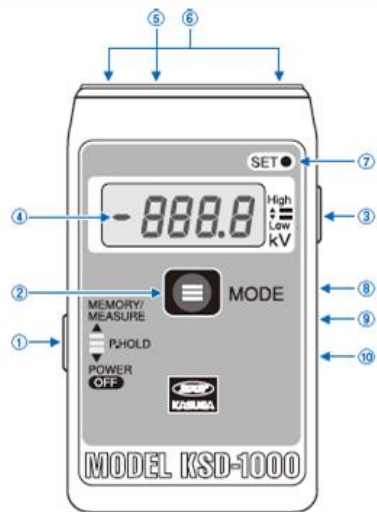
- Equipped with a built-in circuit that detects and informs of failure of the detection sensor. (Patented)
- The Sleep mode saves battery power when forgetting to turn the unit off.

Specifications

Model	KSD-1000	KSD-2000
Detection method	Vibration-type static sensor	
Measuring ranges	High range: $\pm 0.1\text{kV} - \pm 50\text{kV}$ Low range: $\pm 0.01\text{kV} - \pm 20\text{kV}$	
Analog output	0 - $\pm 500\text{mV}$ (high range only)	
Measurement precision	Within $\pm 10\%$	
Standard measurement distance	High range: 100mm Low range: 50mm	
Measurement distance detection	Automatic, ultrasonic automatic	
Measurement mode	Continuous/ Peak hold	
Data memory	Up to 20 values	
Operating environment	Temperature: $0^{\circ}\text{C}-40^{\circ}\text{C}$, Humidity: 65% RH or below (no condensation)	
Power supply	2 AA alkaline batteries (10 hours or more of continuous operation)	
Dimensions	121×70×22mm	Main unit: 121 mm × 70 mm × 22 mm Probe: 137 mm × 20 mm × 20 mm
Mass	Approx. 170 g (including batteries)	Approx. 270 g (including probe and batteries)
Options	AC adapter (AC100-240V)	
	Analog output cable (length: 1,000 mm)	

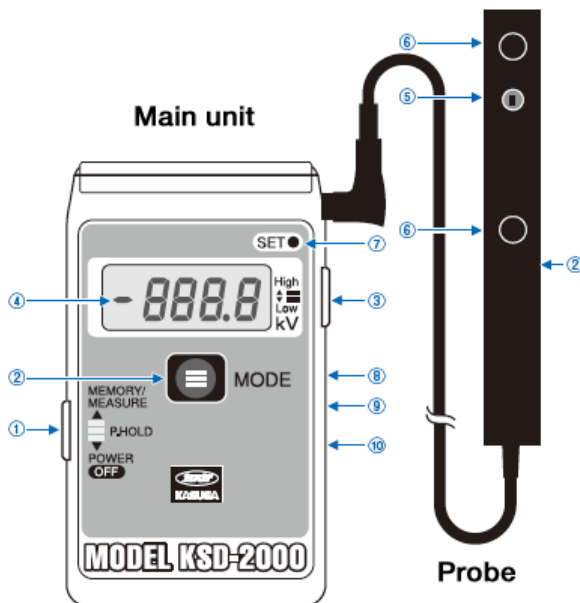
Names of parts

KSD-1000



- | | |
|----------------------------|-------------------|
| ① Power switch | ⑥ Distance sensor |
| ② Mode button | ⑦ SET-LED |
| ③ Range switch | ⑧ "0" ADJUST |
| ④ Display | ⑨ REC/GROUND |
| ⑤ Static sensor (detector) | ⑩ AC ADAPTOR |

KSD-2000



- | | |
|----------------------------|--------------|
| ① Power switch | ⑦ SET-LED |
| ② Mode button | ⑧ "0" ADJUST |
| ③ Range switch | ⑨ REC/GROUND |
| ④ Display | ⑩ AC ADAPTOR |
| ⑤ Static sensor (detector) | ⑪ Probe |
| ⑥ Distance sensor | |

