

Tester

Static Electricity Measuring Instrument

STATIRON

STATIRON DX

Multi-function Static Electricity Measuring Instrument



DX

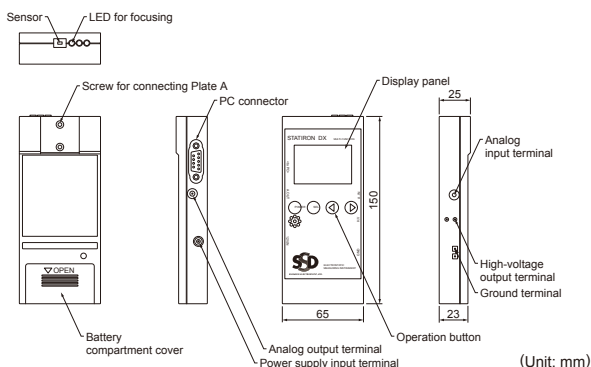
STATIRON DX Complete set configuration (Model name:DX-02)



STATIRON DX Complete set configuration (Model name:DX-02)



Dimensional Diagrams



Main Features

The STATIRON DX is a multi-function static electricity measuring device that can perform three different measuring functions: measurement of the surface potential of a charged object, monitoring of a charged plate, and monitoring of the ion balance. It is a hand-held model with a digital display, and is capable of storing measured data into memory and transferring it to an external device.

- The STATIRON DX uses a non-contact method for measuring the potential of a charged object, and with 1 V as the minimum electric potential display unit, is the optimum device for implementing electronic device ESD countermeasures.
- A high-voltage power supply and timer are built in, and when one of the charged plates available as an option (charged plate A or B) is mounted, monitoring of the charged plate and the atmospheric ion balance is enabled. The minimum electric potential display unit at this time is 1 V.

Application Example

- Charge potential measurement of electronic devices such as semiconductor ICs and MR heads
- Charge potential measurement of printed circuit boards and LCD panels
- Characteristics evaluation of various ionizers (room-type, table-top, ion air guns, etc.)
- Monitoring of the ion balance in a space
- Measurement of friction charge and electrostatic induction

Model	DX
Model name	Main body:DX-01 / Full set:DX-02
Signal detection method	Oscillating chopper *1
Surface potential measurement	
Potential measurement range	Lo mode: 0 to ±1999 V; Hi mode: 0 to 19.99 kV
Measurement accuracy	±10% of rdg ±2 digits Lo mode: 1 V resolution; Hi mode: 10 V resolution
Measurement distance	Lo mode: 30 mm; Hi mode: 50 mm (between measurement object and sensor)
Measurement distance adjustment	Red LED light focusing system (the light mark focusing distance is 30 mm or 50 mm)
Measurement object correction	Standard 200×200 mm / 50×50 mm
Polarity display	Negative polarity (—) only
Battery check	Amount of power remaining indicated on the display
Attenuation measurement *2	
Potential attenuation ranges	±1000 V to ±100 V / ±100 V to ±10 V
Timer display	000.0 s to 900.0 s
Potential display	±0000 V to ±2000 V
Ion balance measurement *2	
Alarm potential	Outside the -100 to +100 V / -10 to +10 V ranges
Potential display	0 to ±200V
Functions	
	Memory function for measured data PC connection data management (real time/memory mode) *3 *4 Automatic power Off (after 15 minutes of non-activity) Automatic zero adjustment, analog output
Power supply	One 9 VDC alkaline battery for approximately 15 hours of continuous operation
Operating Environment	0 to 40°C
Main unit dimensions	66×25×150 mm (W×H×D)
Weight	200 g (including battery)
Accessories	AC adapter, 9 VDC alkaline battery, grounding wire, cable for analog recorder, soft case for main unit
Options	Charged plate A, charged plate B, cable for charged plate B, PC connection cable (RS-232C), PC connection software, stand, hard storage case for storing the options together with the main unit.

Note: The options can only be purchased as a set. If they are not ordered together with the main unit, the main unit must be returned for adjustments before the options can be shipped.

*1 The oscillating chopper is very susceptible to shock such as being dropped. Take care not to subject it to strong shock when using it.

*2 The optional charged plate A or plate B (and the cable for plate B) are required to enable this function to be used.

*3 The optional PC connection cable and PC connection software are required for connection to a PC.

*4 Microsoft® Excel® software (2000, 2002 or 2003) is required to enable use of the PC connection software (DX TOOL). This software operates in the Windows 98, Windows 2000 and Windows XP environments. Case of WINDOWS VISTA, please use indication for a classic mode.