

Electrostatic Discharge Simulator

ESS-PS1 & GT-31S (ESD Gun)

NEW

Make your electrostatic testing easier!

This tester simulates the electrostatic discharge phenomenon from a charged human body and evaluates the resistance of electronic devices to electrostatic discharge.

Electrostatic discharge occurs when a charged human body approaches an operation panel, button switches, or housing of electronic devices. It generates a high-voltage, high-frequency noise which can cause malfunctions in the electronic devices.

Electrostatic testing reproducing noise caused by electrostatic discharge is one of the essential immunity tests to prevent troubles caused by noise in the market.

- IEC 61000-4-2 / ISO 10605 Standards compliance.
- Touch panel operation discharge gun improves operability.
- Portable battery unit offer convenient testing for large equipment.
- Pre-check function for simple pre-start inspection to ensure correct testing.
- One-touch replacement of CR unit.



Greater freedom in testing! Touch panel and portable battery for easier testing

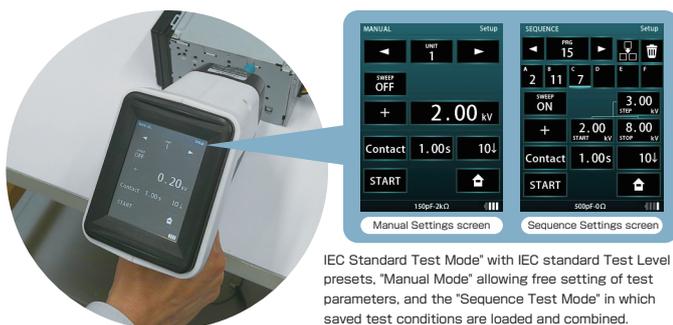
The discharge gun is equipped with a touch panel and is battery-powered for improved portability. This is effective when testing mobility devices, large medical devices, office equipment, etc.



**Product image is for illustration purpose only.*

Easy setting of test conditions Intuitive Operation Screen

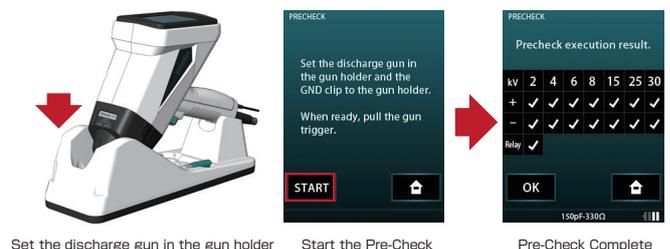
Easy setting of test conditions using the touch panel on the discharge gun. User-friendly intuitive design with English/Japanese multilingual support.



IEC Standard Test Mode" with IEC standard Test Level presets. "Manual Mode" allowing free setting of test parameters, and the "Sequence Test Mode" in which saved test conditions are loaded and combined.

More reliable testing Pre-check Function

Three pre-check functions to ensure more reliable testing: "High voltage power supply output check," "Insulation failure check," and "Discharge relay operation check." Three pre-check functions allow early detection of abnormalities in the testing equipment. Does not require a dedicated measuring device, anyone can easily operate this function.



Set the discharge gun in the gun holder

Start the Pre-Check

Pre-Check Complete

**Image during development*



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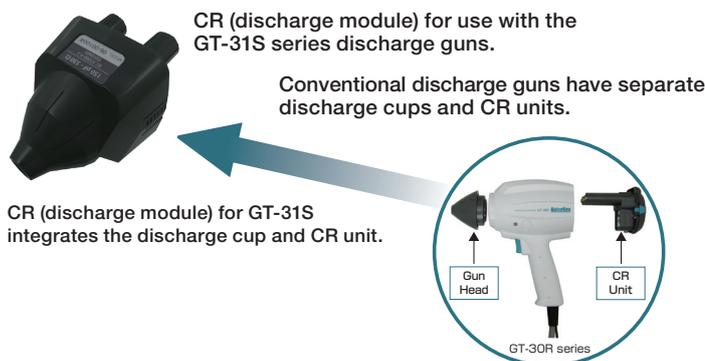
ESS-PS1 & GT-31S Specifications

Parameter	Features / Specifications
Output voltage	0.2kV ~ 30.0kV
Polarity	Positive / negative
Repetition cycle	0.05s ~ 600s
Discharge number of times	1 - 60,000 times, continuous
Discharge mode	Contact discharge / Air discharge
Test mode	IEC standard test mode Manual test mode Sequence test mode
Trigger mode	Gun trigger / External trigger
Discharge detection	present
Pre-check function	present

Parameter	Features / Specifications
CR-cup check	IEC & ISO detection
Operation panel	Color LCD touch panel (resistive film type)
Language	English / Japanese
External Control	Optical connector connection for PC communication
Power Supply	AC100V ~ 240V / battery
Dimensions	Power Supply Unit: (W)180×(H)124×(D)292mm Gun: (W)90×(H)236.2×(D)285.4mm <i>* protrusions excluded</i>
Weight	Power Supply Unit: 3kg (excluding AC adapter) Gun: 1.2kg (cables included/connector excluded)
Gun Holder	Included in the package

ESS-PS1 & GT-31S Options

CR for GT-31S (discharge module)



MODEL	Product Name
06-00100A	CR for GT-31S (150pF-330Ω)
06-00101A	CR for GT-31S (150pF-2kΩ)
06-00102A	CR for GT-31S (330pF-330Ω)
06-00103A	CR for GT-31S (330pF-2kΩ)
06-00105A	CR for GT-31S (500pF-0Ω)
06-00106A	CR for GT-31S (150pF-500Ω)
06-00107A	CR for GT-31S (100pF-1.5kΩ)
06-00108A	CR for GT-31S (200pF-0Ω)
06-00109A	CR for GT-31S (150pF-150Ω)
GT-ISOSET-A	ISO Accessory Set for GT-31S Set includes: CR for GT-31S 06-00101A / 06-00102A / 06-00103A, discharge tip (sphere type) 12-00009A

*Please inquire separately for CRs other than those listed.

● For ISO 10605 testing

ISO 10605 testing can be performed by using the optional ISO accessory set for the GT-31S with the ESS-PS1>-31S.



Discharge Tips MODEL: 12-00007A / 8A / 9A



Discharge gun tips

Discharge tip (conical): 12-00007A

Discharge tip (round): 12-00008A

Discharge tip (sphere type): 12-00009A

Probe stand MODEL: 03-00130A



Probe stand used to secure a discharge gun for electrostatic testing equipment. (Not regulated by IEC standard)

The articulated type allows the discharge gun to be oriented and fixed in any desired direction.

Parameter	Specification
Dimensions	Height (H): 380mm Base diameter: 160mm
Mass	Approx. 4.1kg
Range of motion	Vertical: 150mm Pivot angle: 130°

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