

Electrostatic Discharge simulator after service and support status and successor product notice

The electrostatic simulator you always use is renewed now. The new main unit and discharge gun in sale now are `ESS-S3011A`, `ESS-B3011A` and `GT-30RA`. For repair maintenance in our company, we discontinue repair support 8 years after delivery according to warranty and 5 years after sales termination. For those electrostatic simulators whose repair support is terminated, we may decline to repair. For discharge gun `TC-815 series`, as there are many discontinued parts, it is difficult to continue to support it. We plan to terminate the repair support as the following schedule.

Repair support termination schedule notice

Model	Repair service and support status	successive model
ESS-630 series	terminated	ESS-B3011A
ESS-200AX	terminated	ESS-S3011A
ESS-100L	terminated	ESS-B3011A
ESS-100LA	terminated	ESS-B3011A
ESS-2000	terminated	ESS-S3011A
ESS-2002	terminated	ESS-B3011A
ESS-2000AX	terminated	ESS-S3011A
ESS-2002EX	terminated	ESS-B3011A

Repair support termination schedule:discharge gun

Model	Repair service and support status	successive model
TC-815C	terminated	GT-30RA
TC-815D	terminated	GT-30RA
TC-815D(F)	terminated	GT-30RA
TC-815P	terminated	GT-30RA
TC-815R	terminated	GT-30RA
TC-815RE2	2020年 (scheduled)	GT-30RA
TC-815S	2020年 (scheduled)	GT-30RA
TC-815-330/2K	2020年 (scheduled)	GT-30R3302KA

※ Old standard:IEC61000-4-2 Ed1 compliant (new standard incompliant)



For the customers who above have electrostatic simulators and discharge gun, please consider to buy the successive model (current model) as replacement.

Information on successive model (current model)

ESD Simulator

ESS-S3011A & GT-30RA

Smart model equipped high function & extensibility

EMC test equipment to evaluate the resistibility of electronic equipments when energy charged on a human body or object is discharged to the electronic equipment. This can be available for evaluating malfunctions or functions declines of electronic equipment against the ESD.

Programmable simulator to ease some complicated tests. The output voltage is up to 30kV and performable IEC61000-4-2 & ISO 10605 Standardscompliant tests.

- “3 pre-checking function” to make sure the more confirmable test
- “CR constant indicator” to make sure the correct unit attachment
- One-touch exchange of gun head and CR unit realized
- “Ten-key & Rotary knob” to ease the setting.
- “Discharge Detecting Function” to realize the air-discharge confirmation.
- “Lightest discharge gun in the market” to lighten the continuous operation (Excluding the cable and connector)
- “White LED Irradiator” to facilitate the visualization of the discharging areas.
- “Control Software” to enable the test result reporting and control with PC.



Parameter	Specification
Polarity	Positive / Negative
Output voltage	0.20kV ~ 30.0kV±5% (30.5kVmax) ~10.0kV : 0.01kV step ~30.0kV : 0.1kV step
Repetition cycle	0.05s ~ 600s±10% / Manual Set step : 0.01s (0.05 ~ 9.99s), 0.10s (10.0 ~ 600.0s)
No. of time of discharge	1~60,000 times, Preset 1 time step or continuous preset
Discharge mode	Contact discharge / Air discharge
Radiation level mode	NORMAL mode / EXTRA mode
Trigger mode	Gun trigger / Main trigger / External trigger
Operation panel	Color LCD / Push-buttons (Partially lighting)
Gun holder	Standard attached (to hold the discharge gun Model GT-30RA)
Radiation mode select switch	Extra / Normal switching function built-in
Discharge detection	Discharge detection function in air-discharge equipped
Pre-checking function	Following 3 steps function equipped (by user operation. Not the calibration but just checking) STEP1 : High voltage output checking STEP2 : Withstanding voltage checking STEP3 : Discharge relay operation checking
CR & Gun head checking	CR constant and gun head recognizable (with an indicator to prevent the wrong combination)

Parameter	Specification
"IEC STANDARD" test mode	Contact discharge mode : 2.0kV, 4.0kV, 6.0kV and 8.0kV step Air discharge mode : 2.0kV, 4.0kV, 8.0kV and 15.0kV step
"MANUAL" test mode	Contact / Air discharge mode, Arbitrary setting during 0.2kV-30.0kV Sweeping function built-in, Recordable up to 99 units
"SEQUENCE" test mode	Enables to operate units set in MANUAL mode continuously. Max. 22 steps / 1 program and the programs recordable up to 20.
Warning lamp	Lighting at voltage output from the generator. Blinking at electro-static discharging
Charge capacitor / resistor	150pF±10%, 330Ω±10%(Built-in CR unit for discharge gun GT-30RA)
Charge resistor in generator	10MΩ(Totally 53Ω in combination with 43MΩ in discharge gun)*
AUX connector	D-SUB 15pins female connector (for connecting to patrolight, automated ESD eliminator, external interlock input, external trigger input terminal)
Optical communication	Optical connector (serial interface) for connecting to PC connector
Power supply / consumption	AC100V~AC240V 50Hz / 60Hz ±10% 75VA
Dimension	Generator : (W)392mm X (H)312mm X (D)295.3mm (including gun holder) Discharge gun : (W)83.3mm X (H)217.2mm X (D)229.3mm
Mass	Generator : Approx. 7.5kg Discharge gun : Approx. 800g (excluding cable and connector)

* The constant depends on combination with CR unit for the discharge gun

ESD Simulator

ESS-B3011A & GT-30RA

Cost-oriented Basic models

Cost-oriented basic model ESD Simulator the light weight discharge gun attachable. The output voltage can be selected either max. 30kV (B3011A) or max.16kV (L1611A) and compliant to both EN/IEC61000-4-2 Standard (both B3011A and L1611A) and ISO10605 Standard (only B3011A).

- “Pre-checking function” taking the confirmable test into the account
- “Discharge Detecting Function” to realize the air-discharge confirmation.
- “Lightest Discharge Gun in the market” to lighten the continual operation"
- “White LED Irradiator” to facilitate the visualization of the discharging area.
- “CR constant checking function” (No indicator) to make the correct unit attachment sure"
- One-touch exchange of gun head and CR unit realized



Parameter	Specification
Output voltage	0.20kV~30.0kV±5%(30.5kVmax) ESS-L1611A is 16kVmax
Polarity	Positive / Negative
Repetition cycle	0.05s~9.99s±10%, 0.01s step / Manual
No. of time of discharge	1~999 times, Preset 1 time step or continuous preset
Discharge mode	Contact discharge / Air discharge
Trigger mode	Gun trigger / Main trigger
Operation panel	Indicator : 5X7 Dot matrix LED / Operation : Push buttons
Radiation mode select switch	Extra / Normal switching function built-in
Discharge detection	Discharge detection function in air-discharge equipped.
Pre-checking function	High voltage output checking function (by user operation. Not the calibration but just checking)
CR & Gun head checking	CR constant and gun head recognizable (to prevent the wrong combination without indicator)
IEC LEVEL	Contact discharge mode : 2.0kV, 4.0kV, 6.0kV and 8.0kV step
Switching function	Air discharge mode : 2.0kV, 4.0kV, 8.0kV and 15.0kV step)

Parameter	Specification
Warning lamp	Lighting at voltage output from the generator. Blinking at electro-static discharging
Charge capacitor / resistor	150pF±10%, 330Ω±10% (Built-in CR unit for discharge gun GT-30RA)
Charge resistor in generator	10MΩ (Totally 53Ω in combination with 43MΩ in discharge gun)*
Power supply / consumption	AC100V~AC240V ±10% 50Hz / 60Hz 62VA
Dimension	Generator : (W)270 X (H)263 X (D)200mm Discharge gun : (W)83.3 X (H)217.2 X (D)229.3mm
Mass	Generator : Approx. 4.8kg Discharge gun : Approx. 800g (excluding cable and connector)

* Remote control function not built-in.

* The constant depends on combination with CR unit for the discharge gun

* Designs, appearances and specifications on the products are subject change without notice.