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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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PESD 1610

16kV Electrostatic Discharge Generator

■ **Bringing dissimilar insulation** materials together and then parting them creates electrostatic charges. The resultant electrostatic discharge (ESD) can cause failures in electronic circuits.

There are two principal methods of discharge: Air discharge and contact discharge. Contact discharge is the preferred test method because test results are more reproducible.

PESD 1610 features a unique **NO CONTACT detection circuit**. During contact discharge tests, PESD 1610 continuously monitors if ESD pulses are really discharged to the EUT (**E**quipment **u**nder **T**est). In case of no contact to the EUT, the operator receives a warning message in the LCD display. This prevents the user from potentially wrong test results.

PESD 1610 has a **highly ergonomic design**. This includes a firm handle that insures safe and comfortable operation under any circumstances, and dedicated, large conventional pushbuttons for easy and convenient setting of all test parameters.

For long running tests, a screw socket on the bottom enables the user to mount the gun on a standard tripod.



IEC test levels L1 to L4 are predefined and are shown in the LCD together with the test voltage.

■ Features

- ☑ 16.5kV Air discharge
- ☑ 9kV Contact discharge
- ☑ Contact discharge current flow detection
- ☑ Standard network 150 pF / 330 Ohm
- ☑ Electronic Polarity change
- ☑ Battery or mains operated

■ Benefits

International application - Specifically designed to meet and exceed the requirements of IEC, EN, and ANSI tests for ESD applications.

Comfortable to use - The light weight, balanced weight distribution and ergonomic handle design mean that testing can be performed over long periods without operators becoming fatigued.

Fast Charging Time - The Lithium ion batteries used in the PESD 1610 provide a high degree of flexibility. They can be fully charged within short time and show no memory effect.

Sturdy and Reliable - Careful component selection ensures that the PESD 1610 will continue to operate under the most strenuous testing regime.

Reduced operator workload - PESD 1610 has all operator accessible controls on the unit rear panel. These include a large LCD display and buttons to change polarity, repetition rate and discharge voltage.

■ Applications

- ☑ ESD testing according to basic EMC Standards IEC/EN 61000-4-2
- ☑ ESD testing according to generic EMC Standards IEC/EN 61000-6-1 & 61000-6-2
- ☑ ESD testing according to IEEE / ANSI Standards
- ☑ Telecommunications – Resistibility Tests
- ☑ Many more international Product Standards

■ Technical Specifications

Air Discharge Voltage	0.2 – 16.5kV	Voltage resolution	100 volt steps
Contact Discharge Voltage	0.2 – 9kV	Discharge Polarity	Positive & Negative
Discharge Repetition	Single, 1, 2, 5, 10 & 20 Hz	Operating Modes	Single & Continuous
Discharge Counter	1 - 9999	Power Mains	85 – 264V 50/60Hz
Standard Network	150 pF / 330 Ohms	Battery capacity	9 hours @1 Hz (typical)

Weights and Dimensions (W x H x D, net weight)			
PESD 1610 Gun	10 x 21 x 20 cm		1.2 kg
PESD 1610 Charger	11 x 7 x 20 cm		0.6 kg

■ Scope of Supply Art. No. 249962

Qty. 1	PESD 1610 ESD Generator
Qty. 1	Carrying case
Qty. 1	Charger / Power supply unit
Qty. 1	Ground Cable
Qty. 1	Test Finger Air discharge
Qty. 1	Test Finger Contact discharge
Qty. 1	User Manual

■ Options & Accessories

Verification Set	For wave shape verification according to IEC/EN 61000-4-2. Includes 2 Ohm Target, Attenuators, BNC Cable, user manual <i>Art. No. 249994</i>
VCP	Vertical Coupling Plane 0.5m x 0.5m for indirect application of the ESD. Includes cable with 2 integrated 470kOhm HV resistors <i>Art. No. 249558</i>
HCP	Horizontal Coupling Plane 1.6m x 0.8m for indirect application of the ESD. Includes cable with 2 integrated 470kOhm HV resistors <i>Art. No. 249688</i>
Remote Control	Fibre optical RS232 Interface for remote control of ESD gun <i>Art. No. 249667</i>
Test Table	Made of wood without any metallic parts, as required by IEC/EN 61000-4-2 <i>Art. No. 249687</i>

ESD Test Table with VCP & HCP



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