



ESD-STAND Ed2 to ESD3000, TRA3000 ESD, ESD2000 and ESD3000DM-EXT

Revised: 4.Mai 2011

1 OVERVIEW APPLICATION OF ESD-STAND ED2

Calibration set-up with insulation support and cable holder	Test set-up without insulation support
	
<p>ESD-STAND Ed2 can be used for ESD3000, ESD2000, TRA3000 ESD calibration</p>	<p>ESD-STAND Ed2 can be used with ESD3000, ESD2000, TRA3000 ESD, ESD3000DM with ESD3000DM-EXT</p>

1.1 Technical data ESD-STAND Ed2

1.1.1 Technical data ESD-STAND Ed2 calibration set up

Height adjustable	53 up to 95 cm	ESD3000DM-EXT
Adapter included for	ESD2000, ESD3000, TRA3000 ESD	All DM and DN can be calibrated without the ESD3000DM-EXT
Complying with	IEC/EN 61000-4-2 Ed.2	

1.1.2 Technical data ESD-STAND Ed2 test set up

Height adjustable	50 up to 180 cm	
Adapter included for	ESD2000, ESD3000, TRA3000 ESD	Adapter for ESD3000DM-EXT see Standard accessories of ESD3000DM-EXT
Complying with	IEC/EN 61000-4-2 Ed.2	

2 STANDARD ACCESSORIES, DIMENSIONS

2.1 Included articles, dimensions

ESD-STAND Ed2 (Article No. 103637)

Mechanical Dimensions

Unit Height:

Length: 64 cm
Width: 17 cm
Height: 12 cm
Net Weight: 4 kg

Included Articles

According to STL-Variante 20, STL-Version 1

Qty	PN	Description
1	103194	CD-UM-IN-ALL includes all User Manuals and Instruction sheets of all EMC PARTNER AG sales products.
1	103191	Standard accessories pack
1	104836	Broschure ESD Test System

2.2 Standard accessories

Accessories to ESD-STAND Ed2 (Article No. 103637)

According to OP-Variante 1, OP-Version 1

Qty	PN	Description	Weight (kg)	Length (cm)	Width (cm)	Height (cm)
1	101254	Knurled screw M5 x 16	0	0	0	0
1	102238	Washer M5x15	0	0	0	0
1	103015	Plastic pack for standard accessories 90x75mm	0	9	7.5	0
1	104241	Wing screw M5x08	0	0	0	0



Component parts of the ESD-STAND Ed2

Insulation support rod

Cable holder with adapter

Metallic tripod

Lower metallic support

Upper metallic support with ESD mount

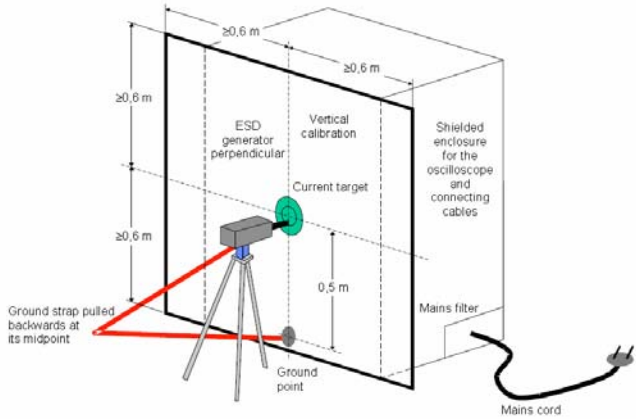

3 DIFFERENT CONFIGURATIONS

ESD-STAND Ed2 can be used for three different configurations:

- 1) Contact mode calibration
- 2) Test set up with the generator on top of the STAND
- 3) Test set up with the discharge module on top of the STAND and the generator connected to the discharge module via the ESD3000DM-EXT (e.g. explosive device testing)

3.1 Contact mode calibration set up for ESD3000, ESD2000, TRA3000 ESD

The current target shall be mounted at the centre of the vertical calibration plane meeting the requirement of IEC61000-4-2 Ed2 figure B.4.2. Connection of the ESD generator current return cable (ground strap) shall be made at the bottom centre of the calibration plane 0.5 m below the target. The ground strap shall be pulled backwards at the middle of the cable, forming an isosceles triangle. It is not allowed to let the ground strap lay on the floor during calibration.

Calibration set-up IEC 61000-4-2 Ed.2	Calibration set-up ESD-STAND Ed2
	
ESD3000, ESD2000, TRA3000 ESD	ESD3000, ESD2000, TRA3000 ESD

Notes:

1. The insulation support rod fulfils the requirement in IEC 61000-4-2 Ed.2
“The generator should be installed on a tripod or equivalent non metal low loss support.” ESD-STAND Ed2 with the insulation support rod is a low loss support.
2. The ground strap is pulled backwards at its midpoint with the earth cable support




Preparing the ESD-STAND Ed.2 for calibration:

1. Check the parts delivered. See list and picture of standard accessories on page 2
2. Open the tripod as shown in the picture above
3. Remove the lower and upper metallic support from the metallic tripod.
4. Slip the cable holder with the adapter over the insulation support rod.
5. Insert the insulation support rod with the cable holder into the tripod base
6. Fix the ESD generator on top of the insulation support rod
7. Adjust the height of the ESD generator tip to be the same height as the ESD target
8. Connect the earth cable to the generator and to the calibration plane with installed ESD target
9. Pull the earth cable back and fix it with the cable holder as shown in the picture above
10. A calibration must be made without the operator touching the ESD generator.

3.2 Test set up for ESD3000, ESD2000, TRA3000 ESD

The ESD-STAND Ed2 can be use for different test set ups:

- 1) When a large number of discharges must be made for statistical evaluation at one test point
- 2) When testing explosive device and the operator must not be in close proximity to the EUT.

Test set-up	Test set-up	Test set-up
		
ESD3000, TRA3000 ESD	ESD2000	ESD3000DM-EXT

For test set ups no insulation support rod is necessary.

Preparing the ESD-STAND Ed2 for test set up with ESD3000, ESD2000 and TRA3000 ESD:

1. Check the parts delivered. See list and picture of standard accessories on page 2
2. Open the tripod as shown in the picture above
3. Slip the cable holder with the adapter over the lower support rod of the ESD STAND Ed2.
4. Place the lower support rod with the cable holder into the tripod base.
5. Insert the upper support into lower support rod
6. Fix the ESD generator on mounting bracket.
6. Adjust the height of the ESD generator tip to be the same height as the ESD test point of the EUT
7. Connect the earth cable to the generator and to the earth point of the EUT
8. Pull the earth cable back and fix it with the cable holder as shown in the picture above
9. For remote control and test report use the TEMA software with a fibre optic link

4 RECYCLING / DISPOSAL

4.1 RoHS directive 2002/95/EG

The ESD-STAND Ed2 complies with the directive 2002/95/EG (RoHS - Restriction of certain Hazardous Substances).

From December 2005, all EMC Partner products either hand soldered or by machine are produced using lead-free solder.

4.2 WEEE directive 2002/96/EG

The EMC Partner ESD-STAND Ed2, is exempted from the directive 2002/96/EG (WEEE) under category 9.

The product should be recycled through a professional organisation with appropriate experience for the disposal and recycling of electronic products. EMC Partner are also available to help with questions relating to the recycling of this product.

4.3 Information for dismantling



Remove always power cord fist.

There is no special danger involved in dismantling the ESD-STAND Ed.

4.4 Parts which can be recycled

The ESD-STAND Ed contains parts made from steel, aluminium, PVC, two-component sealing compound. The impulse capacitors are filled with non-poisonous mineral oil. The various parts can be separated and recycled.

4.5 Parts which cannot be recycled

All parts in the ESD-STAND Ed can be recycled.

5 SERVICE INFORMATION

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