

Baytems ESDzap Lightweight ESD simulator

Product Overview



- Programmable discharge voltage 500 V — 8 kV
- IEC/EN 61000-4-2 voltages up to level 3
- 150 pF / 330 ohm RC network
- Air and contact modes
- Discharge detection
- Automatic polarity switching
- Battery powered
- Lightweight and robust design
- Easy user interface
- Hard carrying case

The Baytems ESDzap is a battery-powered, handheld ESD simulator for performing contact and air discharge mode testing. ESDzap is the most lightweight and affordable ESD tester to simulate ESD pulses. It is highly suitable for pre-compliance testing.

ESDzap supports all IEC/EN 61000-4-2 contact discharge voltage levels and air discharge voltages up to level 3. The test voltage can be altered from 500 V to 8 kV in 100 V steps. The device detects real air and contact discharges, thereby avoiding false discharge counts.

Commonly accessed attributes, such as voltage levels, polarity, and discharge mode are selected with a single press of the button. Advanced features and settings are available using easy menu functions that allow you to optimize the ESDzap for your test setups.

ESDzap is supplied with standard accessories, including interchangeable test tips, a ground cable, and a hard carrying case.

baytems.com/go/esdzap 





Technical specifications

Discharge network	150 pF / 330 ohm as per IEC/EN 61000-4-2
Discharge voltage	500 V — 8 kV
Discharge tips	Point and ball types as per IEC/EN 61000-4-2
Voltage tolerance	±5 %
Voltage resolution	100 V
Holding time	1 — 60 s
Polarity	Positive / negative / fast automatic change
Repetition rate	Single / 1 / 2 / 5 / 10 / 20 Hz
Operation modes	Single / continuous
Power source	4 x AAA lithium batteries
Power consumption	~0.4 W (4 kV standby)
Battery life	10 hours or 15 000 discharges (4 kV @ 1 Hz)
Operating environment	0 — 50 °C, RH 0 — 60 %
Storage environment	-40 — 70 °C
Dimensions W x H x D	80 x 124 x 47 mm
Weight	339 g (including batteries)
Calibration	One-year calibration cycle recommended
Warranty	1 year

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Ordering information

S0017-A Baytems ESDzap

Accessories included

Hard carrying case, air discharge tip, contact discharge tip, ground cable (2 meters), batteries, manual, and calibration certificate.

Baytems accessories and spare parts

A0013-A Contact discharge tip

A0014-A Air discharge tip

C0018-A Ground cable, 2 m

S0024-A Calibration kit



ESDzap kit (PN: S0017-A)



Ground cable, 2 m (PN: C0018-A)



Discharge tips (PN: A0013-A/A0014-A)

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