



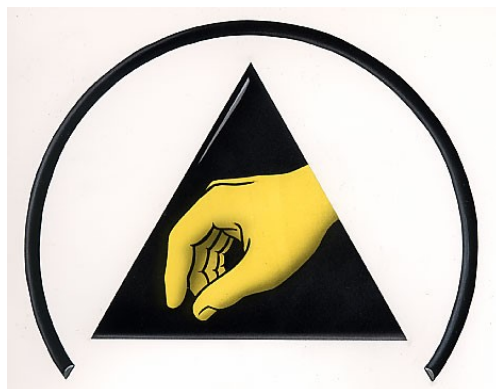
Authorised Distributor for UAE and Middle East

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ESD CATALOG

ESD TEST & IONIZATION





DUAL ESD SHOES-WRISTBAND TESTER

Art. E3 SPS

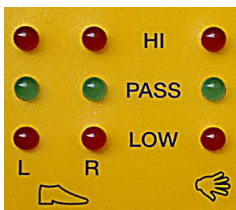
E3 has been designed to test the performance of ESD wrist bands and footwears such as shoes or footgrounders. E3 is designed to operate tests in accordance with IEC 61340-5-1:2007 standard.

E3 performs test on the ESD wristband and the ESD footwears automatically, with separate test for left and right foot. The operator can easily select the test to perform (band only - shoes only - shoes and bands together). E3 includes a dual large and comfortable foot plate (for left and right foot). E3 shows results as High, Pass, or Low resistance values. A relay output can easily connect to electrical doors opening for access in restricted EPA areas. E3 works with battery or external power supply. The kit includes the tester, the wall mount yellow panel, the dual foot-plate, all cords and , with SPS version, the power supply.



MODE SELECTION

On the top right you find the MODE SELECTOR which enables you to select the kind of test you like to perform: "WRISTBAND ONLY", "FOOTWEARS ONLY" or "WRISTBAND & FOOTWEARS"



L.E.D. INDICATIONS

The L.E.D. indication is designed to provide an immediate visual reading of the results of the performed test on footwears and wristbands

"HI" L.E.D.s (red colour) show an electrical resistance too high,
"PASS" L.E.D.s (green colour) show correct electrical resistance values
"LOW" L.E.D.s (red colour) show an electrical resistance too low

TESTER WITH METAL STAND

Art. E3 SPS ST

The E3 tester can be equipped with the ST stand, strong metal construction, metalized grey color, can be placed in any convenient location in the production hall.



E3 TECHNICAL INFORMATIONS (Meets IEC 61340-5-1:2007)

tester dimensions	158x95x60mm
tester weight	240 gr
tester weight with battery	280 gr
footplate dimensions	380x380x8mm
power supply	battery 9V
external power supply (optional)	220V AC/ 9VDC
colour	white box, yellow/black panel, coloured LEDs



ESD TESTERS

POCKET SURFACE METER

Art MIMEG

This pocket meter has been designed to measure electrical resistivity (EIA 541/ASTM D-257) and resistance to ground on different surfaces in the E.P.A..LED indication between 10³ and 10¹² Ohm. Includes electrodes on the back side and is supplied with a ground connection cord.



PROFESSIONAL SURFACE METER

Art E-MEG

This instrument will test point-to-point, surface resistivity and resistance to ground.

The meter indicates conductive by green LEDs from 10³-10⁵ Ohm - static-dissipative by yellow LEDs from 10⁶-10¹¹ Ohm and insulative by red LEDs 10¹²+.

Test voltage: 10³-10⁵ Ohm at 10V and 10⁶-10¹² Ohm at 100V

Automatic voltage switch.

Weight: 250 grams (instrument only)



PROFESSIONAL SURFACE METER TESTS OHMS, RH & TEMPERATURE

Art MULTIMEG

This professional digital electrical resistance meter kit, automatic switch 10-100V to test both conductive and dissipative surfaces, digital display, measurement of RH and temperature. Available with electrodes and case.



ESD FIELD METER

Art. EOS 2001

EOS-2001 is a digital static field meter measuring a range from 0 to + / - 19.999V. Featuring "HOLD" mode and distance lights to 1 inch for precise testing. Easy readable digital display, tests kV x Inch.



ESD WORKSTATION MONITOR

Art. X-1B-1M

X 1B-1M allows real-time monitoring of grounding connections for 1 operator and 1 workstation. Electronic circuitry continuously checks the grounding of the operator wearing a standard single-cord wristband. The X 1B-1M simultaneously checks the effective grounding of mats (both table and floor mats) by simply connecting it to the ground mains and to the ground cords of the mats. Malfunctions are alerted by coloured LED and audible tones. The monitor is supplied with instructions, ground cords and power supply.





ELECTRODES SPARES FOR SURFACE RESISTANCE

High quality shielded electrodes designed for surface resistance testers, according to IEC 61340 standard. The ELEC electrodes are shielded in order to avoid fields interferences. The T handle is designed for a more comfortable handling during testing operations

- Art ELEC-I** standard electrode 2,3kg, 63mm
- Art ELEC-ICC** concentric electrode 2,3kg , 63-30mm
- Art ELEC-T** optional T-handle
- Art ELEC COAX** co-axial cable for ELEC electrodes, 1m + 2 banana 4mm



ESD TESTER FOR PERIODIC FLOOR GROUNDING TEST

Art E-FLOOR TESTER

Designed for periodic floor grounding test (IEC 61340-5-1 / ANSI/ESD S20.20) , simple and effective to use, helps operator to monitor the effectiveness of the installed ESD flooring. The adjustable nylon carrying strap ensures a relaxed, upright posture, without the need to bend over, when working with the device. E-FLOOR tests also the grounding of table mats, chairs and trolleys, workstations and shelves.

Technical data:

Measuring ranges: $\leq 1E9\Omega$, $\leq 1E8\Omega$, $\leq 3.5E7\Omega$, $\leq 1E7\Omega$, $\leq 1E6\Omega$

Accuracy: $\pm 5\%$

Other displays: Personal safety $\geq 5E4\Omega$, Low - Batt
Test voltage: 100V DC (stabilized)

Weight: 2.3Kg

Device incl. 2.5m test lead with schuko plug, test certificate, operating manual, 9V battery and carry case

OPTIONAL: Cable reel with 25m (80 ft) grounding cord for large room surfaces test



ESD TESTER FOR WRISTBAND AND FOOTWEARS WITH ETHERNET PC LINK

Art. E3 REC W ETH - Wall mount

Art. E3 REC ST ETH - Independent stand

Test station for measuring and checking personnel grounding connection of wrist-straps and footwears, according to the IEC 61340-5-1. The instrument includes:

- a fingerprint recognition system
- a datalogger which you can be accessed via LAN (Ethernet connection with TCP / IP and Static IP) to download all the data regarding the access to EPA from the operators.
- Power Supply 9-12VDC 1A (switching adapter is included)
- Connectors:
- External Power : jack 2.1mm or 2 way Phoenix connector • Wrist strap inputs: 10mm stud, 4mm stud, 4mm banana
- Footwear inputs and Door opener: 4 way Phoenix connector
- LAN : RJ45

ELME ESD TESTER
art. E3 REC





OVERHEAD ION BLOWERS

The **OH OVERHEAD BLOWERS** are designed to minimize the static charges accumulations on the workstation where ESD sensitive devices are handled. The OH blowers are designed to cover the area with fans pushing ionized balanced airflow on the area to combine with static charges excesses generated by the production process (material handling, soldering operations etc).

- Quickly neutralizes static charges
- Light and compact, good operability,
- **Variable speed fan** for airflow control
- Good grounding protection
- Ionization indicator

ION BLOWER 2 FANS

Art. OH-2

Size 600×90×170(h) mm

Distance mm	300	600	900	1200
Left	1.0s	2.1s	3.2s	4.0s
Center	1.2s	2.5s	3.6s	3.5s
Right	1.0s	2.0s	2.9s	3.9s



ION BLOWER 3 FANS

Art. OH-3

Size 1100×184×110(h) mm

Distance mm	300	600	900	1200
Left	1.0s	2.1s	4.9s	1.0s
Center	1.1s	2.2s	4.2s	1.1s
Right	1.1s	2.3s	4.7s	1.1s



ION BLOWER 4 FANS

Art. OH-4

Size 1100×170×125(h) mm

Distance mm	300	600	900
Left	0,8s	2.1s	4,3s
Center	0.7s	1,9s	2,8s
Right	0.9s	2.4s	4,3s



ION GUN G-03

The ION GUN G-03 is designed to remove dust, residues and other contaminants from electronic assemblies, plastic moulded parts, plastic sheets, lenses, and other dust sensitive surfaces. The air compressed streamflow passes through an ion nozzle which generates positive and negative ions at high voltage. The compressed air will reach the surface to be cleaned and **removes all contaminants without generating a static charge on the surface** itself. In this way, the surface will result clean and neutral. No static fields will re-attract the dust after the action. ION GUN G-03 is particularly indicated during precision assembly processes where the plastic parts need to keep clean and neutral.

Model	ION GUN G-03
Input Voltage	DC24V
Power	10W
Ion Balance	±15V
Decay Time	< 1S @ 15CM
Ionization Technology	High Frequency AC
Emitter Material	Tungsten
Emitter Replaceable	Yes
Air Volume	0.1-0.5Mpa
Control	Manual Trigger/Foot Press Solenoid valve
Display	Green LED Indicator
Connection	Power Connection/ Foot Press Switch Connection
Air Outlet	Centralized Airflow/Spread Airflow
Operation Environment	10-40°C /20%-70%RH
Alarm	Indicator
Dust Filter	Yes
Bracket	Plastic
Clean Cycle	Long
Used Environment	Super Cleanroom Environment





ION BENCH BLOWER

Art E-ION 1205

E-ION 1205 using AC ionization technology, with wide coverage design, ensures stable ion balance and fast elimination speed, $\pm 10V$ ion balance, it can be used in different industries like electronics, medical and plastic industries to protect ESD sensitive components and prevents dust particle electrostatic absorption.



GENERAL FEATURES

Input Voltage: 220VAC/50Hz
 Air Volume Output: 70/120 CFM
 Operating Temperature: 0-50°C
 Ozone Content: 0,005 PPM
 Noise: 55 to 65 dB
 Enclosure: Steel Plate
 Dimensions: 450x220x190(h)mm

DISTANCE	LEFT 300mm	CENTER	RIGHT 300mm
300mm	1,5s	1,1s	1,4s
600mm	2,8s	2,2s	2,7s
900mm	3,9s	3,6s	3,8s
1200mm	5,6s	5,5s	5,9s

Test voltage elimination 1000V - 100V

SMALL FOOTPRINT ION BLOWER

Art. ION ONE

ION ONE is the benchtop ion blower designed to operate on specific place on the workbench. Adjustable airflow, optional warmed airflow, the ION ONE offers very good performance at competitive price.

GENERAL FEATURES

- Adjustable airflow
- Input Voltage: 220V/110V
- Power Consumption: Max 270VA
- Operating Temperature: -10°C ~ +45°C
- Air Volume: 45 ~ 110CFM
- Weight: 2.8KG
- Size: 190(L)*95(W)*260(H) (mm)
- The ion balance could be manually adjusted to $\pm 3V$ in a specific clean environment with constant temperature and relative humidity.
- Option for automatic emitter point cleaning function, reducing maintenance costs and time.



PERFORMANCE

Ideal distance from the surface is 300mm, voltage decay 1kv-100v: 1,0—1,3s at room temperature

