

DATA SHEET
ELECTROSTATIC ALARM
(Model: ESA-01)

The electrostatic alarm Model ESA-01 is a portable battery operated instrument, incorporating simple technology to indicate excessive charge accumulation in environments where ESD are detrimental to manufacturing process in the semiconductor and various ESD protected industries. The instrument can be kept in 'ON' for continuous monitoring of critical static safe area. Resetting the alarm is performed automatically.



OPERATION:

A static charge have the capability to produce electric field on any object, and the strength of the field at inversely at a distances from the charge, the electrostatic alarm responds this electric field, also more specifically it senses only charges in the electric field. So to detect a charge there should be a relative motion between the instrument and the charged body.

SPECIFICATIONS:

Power Supply	: 9V Battery
Detection Voltage	: +/- >100V
Detection Method	: Charge coupling by field interception
Range Selection	: Auto ranging & Auto Resetting
Indication	: LED's visual indication with audible sound
Dimensions	: 105 x 70 x 25 mm
Weight	: 120 gms (with battery)
Warranty	: 12 Months.
Accessories	: Carry Case.

Users manual
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OPERATION:

A static charge has the capability to produce electric field on any object, and the strength of the field at inversely at a distance from the charge, the electrostatic alarm responds to this electric field, also more specifically it senses only charges in the electric field. So to detect a charge there should be a relative motion between the instrument and the charged body.

OPERATING INSTRUCTIONS:

Operating the Instrument is very simple. Install the 9V battery if not already present and place the instrument in any location to be monitored.

When the instrument is switched ON, a short self-test beep should be heard indicating that the instrument is functioning well.

Audible beeps indicate the presence of static charges. The Relative magnitude of the charges can be estimated by noting the distance at where the beeps occur.

Note: This instrument is also marginally sensitive to strong electromagnetic fields, so, to prevent false alarm ensure that it is not placed close to any live wires or power sockets

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MAINTENANCE:

Apart from routine battery replacement, this Electro Static Alarm is designed to be completely maintenance free. There are no parts inside which can be replaced by the user himself. In case of malfunction, kindly refer to manufacturer or his authorised personnel. The instrument can be cleaned with a damp cloth. Never use solvent as they may damage the plastic case.