Advanced ESD and Static-charging Monitor

ESD and Pulse Technology

ESD Detector

Model EV-10A Stand alone or PC network connection

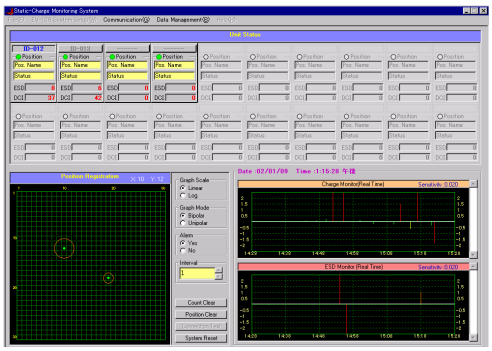
ESD examples to be detected

① Discharge from a component to metal tool
② Discharge from human body
③ Discharge between components
④ Discharge from chair, case or unit

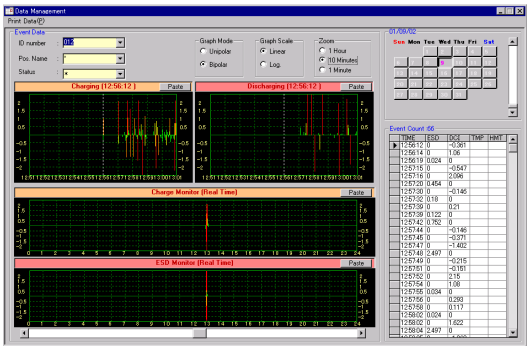
Static charging examples to be detected

① Charging by motion of charged objects
② Friction charging
③ Charging by the potential change

PC Display, Main menu

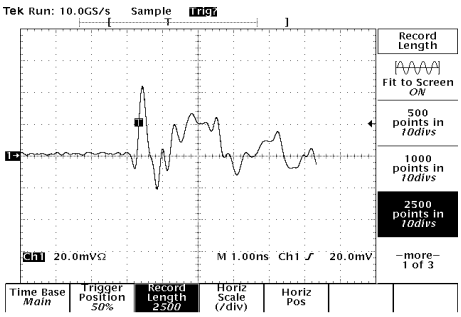


PC Display, Recorded data



ESD Detector EV-10A

Chair discharge 500ps/sec



Distance:1 meter, Antenna: 10mm

■ To monitor or evaluate ESD

- Assembling GMR head
- GaAs assembling
- Detect EMI trouble
- Evaluate ESD control
- Production of LCD panel
- Trouble shoot of equipments
- To avoid ESD trouble
- ESD control of IC wafer
- To monitor the ESD environment
- To monitor component stock room

■ To alarm electrostatic charging

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Features and Functions

ESD Detector Model EV-10A,

- Monitor ESD, Evaluation of ESD control
- Evaluation of static charging in the area
- Digital measurement
- ESD voltage may be predicted
- Manual or remote control
- Control level is set for charge/discharge
- Event count given
- ESD strength at the monitored location
- Monitor temp. and humidity
- Daily, weekly, monthly report

General description

The Model EV-10A is to detect and monitor Electro-Static Discharge (ESD) as well as Field Induced charging. It can be located any place so that strength and frequency of the ESD and static charging around there can be recorded. Sensitivity and bandwidth is improved, and polarity and peak value of ESD can be captured. By the detection of Dynamic-Charge Induction, you can detect the field induced charging level that may cause ESD. If multiple EV-10A is connected to a Host PC, PC monitor will show the location of ESD events. One PC accepts up to 20 units so that wide area can be monitored. This system receives and records electro-magnetic wave and field induced charging, then outputs location graph or sequence graph. In general, the ESD robustness of the electronics devices is rapidly decreasing because of increasing density. This requests more precise control of the static charge in the field such as manufacturing line and assembling line. Because MR head and GaAs IC are some of the most ESD sensitive devices, they should be handled in the field where static charge is very carefully controlled. The Model-10A is very useful to monitor the field for these components.

Specifications

ESD Detector

Sensitivity: ±0.3mV to ±35mVpeak

Numeric display: 0mV to ±2,500mV

Polarity detection: Yes

Temp/RH: ±2℃, ±5%RH (Optional)

Antenna: Monopole, 50Ω, 2GHz BW

Induced Charging detector(Optional)

Sensitivity: ±0.55mV to ±12..5mVpeak

Numeric display: 0mV to ±2,500mV

Polarity/count: Yes

Sensor size: Approx. 80mm sphere, 200mm height

Others Standard Specification

Display: Received ESD voltage, Temp. and RH

LEDs: Range of received signal is shown.

Buzzer: Alarm

AC adaptor: 100VAC+/-10%, 8VA

Size, Weight: Approx. 178W, 127D, 73H, 1kg

PC, Scanner

Scanner EVSC-04: 4 channels

Scanner EVSC-20: 20 channels

PC, Printer: Includes data collection software

RS-232C Cable: 10 meter/unit

Options

With induced charge detector: Model EV-10A-F

With Temp/RH sensor : Model EV-10A-ET

With both above : Model EV-10A-FET

Specifications subject to change without notice.

Contact to: