Resistance Based Constant Monitor System

Transforming Technologies' RangerNET constant monitor is the premiere work station grounding system available. A continuous pulse of an ultra-low voltage signal measures the electrical resistance of two wrist bands, two work surfaces, and two auxiliary grounds simultaneously and alarms is there is a problem.

The RangerNET is an extremely sensitive and reliable ground monitoring instrument. Audible and visible alarms are triggered if the operator’s resistance exceeds 35 megohm (factory default). Low resistance can also triggers an alarm event. Mat alarm limits are set at 100 meg ohm. The CM2815 packaged in a stainless steel case with remote jacks.

The RangerNET saves time by eliminating the time consuming testing of grounding products. The system uses special dual wire wrist band sets that contain two independent elements which provide fail-safe protection. The series includes both fabric and metal wrist bands paired with cords in either 5, 10, or 20 feet lengths.

The RangerNET can be integrated into a network with the BossSee software for status monitoring and data collection.

Meets or exceeds requirements of ANSI ESD-S20.20 and ESDA Standard 1.1-2006

Applications:

ESD constant monitors reduce production costs by eliminating the time spent on testing wrist straps. Further savings may be realized by reduced ESD damage from broken wrist straps and work surface failures. Resistance based monitors are the most accurate technology available.

RangerNET kit includes two wrist strap remote jacks, and ground cables for two mats.
RangerNET CM2815

The BOSS-SEE Monitoring System

The CM2815 is network ready and can easily be connected to other workstation monitors and a computer using the high speed network router, CM2800-H. The host computer is transformed into a command center with the software BOSS SEE, a central monitoring program that shows real time grounding results and data collection of up to 4096 workstations. An entire factor's ESD protection can be remotely monitored with one computer.

The Superior Resistance Monitoring System

Workstations using resistance monitors are almost never at risk for a failed ground connection. This type of monitor is used with a two-wire (dual conductor) wrist strap. When a person is wearing a wrist strap, the monitor observes the resistance of the loop, consisting of a wire, a person, a wristband, and a second wire. If any part of the loop should open (become disconnected or have out of limit resistance), the circuit will go into the alarm state. An important feature of the dual wire wrist strap is that even if one conductor is severed, the operator has reliable path-to-ground with the other wire.

Basic systems use impedance technology and single wire wrist straps which can be easily fooled. If a wrist strap is worn incorrectly, the monitor can still register a “pass” condition or if the wire of the wrist strap is severed the workstation could be put at risk for ESD damage.

About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.