

New Equipment Division:

ESC/ESD Related Monitoring Instruments and Process Environment Monitoring Solutions



Auditing/Training:

Novx Series 5000: Portable Auditing, Monitoring, and Training Voltage Detection System for ESC/ESD Control

The Novx auditing, monitoring and training line of products are advanced instruments used in electrostatic charge and electrostatic discharge voltage detection with direct interface to the Novx Data Acquisition Software and facility monitoring systems. These instruments are used for test and analysis of human body voltage, product performance, real-time equipment performance, ground integrity and ESD training with the integration of the Novx Series 6150 Training Light Tower. These instruments are excellent marketing tools to demonstrate to customers your continued concern about electrostatic charge (ESC) in your manufacturing environment.

Monitors:

Novx Series 6000 Real-Time Proactive Event Detection System

The Novx Series 6000 Digital Workstation and Process Equipment Monitor is a microprocessor-based instrument with digital I/O capability for precise real-time, ESC/ESD, EMI and process environment monitoring that notifies you of any occurrence which goes above your specific threshold regardless of the source.

Novx Series 400 Proactive Body Voltage or Current Detection and Ground Monitoring System

The Novx Series 400 Digital Workstation and Process Equipment Monitor is a microprocessor-based instrument with digital I/O capability with precise real-time, ESC/ESD and process environment monitoring that notifies you of any occurrence.

M100 Microprocessor-Based Continuous Reference Ground Quality Monitor

The Novx M100 is a microprocessor-based multichannel ground monitoring instrument built to provide continuous monitoring of multiple ground points at workstations or within process equipment. Ground performance is the foundation for a comprehensive real-time ESC/ESD and process environment control program.

Software:

Process Environment Monitoring System

P E M S

Monitor. Analyze. Control...
we can see what others can't!

Novx Corporation is leveraging its knowledge of electrostatic charge to monitor, measure and report many environmental parameters through its Process Environment Monitoring System (PEMS™). PEMS provides a more cost-effective solution to monitor and manage the manufacturing environment and its processes, tools and cleanrooms. For many years, Novx has focused its resources on providing solutions to the highest levels of electrostatic charge monitoring in the cleanest and most sensitive manufacturing environments. These environments require a tremendous amount of attention to ESC to prevent massive yield hits, tool downtime and production bottlenecks due to the effects of ESD, ESA, and EMI.

Data Acquisition

The software operates from a PC-based host computer for data capture and real-time monitoring with optional Ethernet interface to customer facility monitoring systems. The software requires no modification to standard Novx products with data output capability.

Options:

Data Acquisition Remote Terminals

These interface boxes introduce our first dual-processing system to connect directly to all environmental sensors including, but not limited to temperature, humidity, differential air pressure, flow, particles, vibration, molecular, etc. Dual-processors provide high-speed data capture and real-time process equipment communication interface. These remote boxes maintain our "daisy-chain" configuration for station-to-station connection to the Process Environment Monitoring System (PEMS). A single power supply for these boxes supplies it and all attached sensors.

Soldering Iron Monitor

The Novx M20 is an AC ground monitoring system to detect if the tool tip is properly grounded and has no voltage harmful to sensitive parts. The sensor is located on the tool holder or under the wet wipe sponge, in which the entire conductive sponge becomes the sensor. Tool ground is verified every time the sponge is used. System alarm levels can be factory set at either .25V or 1.5V (standard).

Universal Ground

The universal ground box is attached to process equipment or movable carts to provide mobile grounding for a person and any product on the cart. When the operator and cart are connected to the workstation, everything is then at the same ground potential for optimal grounding. The goal is to provide a common reference ground between the equipment or cart, the product, the human interface, and the workstation.

Accessories:

Instrument Antennas

Teflon Base Antenna

The Teflon Base Antenna is free-standing and used as a training aide for the Novx Series 5000, includes cable.

Banana Plug Antenna

The Direct Banana Plug Antenna can be directly plugged into the Novx Series 5000 or Novx Series 53xx.

Four Inch Antenna

The 1.75" diameter, four inch tall, Free-Standing Antenna Assembly with cable can be used with the Novx Series 5000 or Novx Series 53xx.

Two Inch Antenna

The kit includes the 4" antenna above with horizontal mounting bracket and a 1.75" diameter, two inch tall, Free-Standing Antenna Assembly which can be used with the Novx Series 53xx.

Remote Coax Antenna

The 1.75" diameter, Remote Coax Antenna Assembly can be used with the Novx Series 5000 or Novx Series 53xx for location-specific, ionization balance monitoring, and field charge detection. Assembly includes cable and antistatic sleeve.

Active Antenna

The 1.75" diameter, "Active" Antenna Assembly can be used with the Novx Series 5305 and Series 5315 for precise measurement of charged objects including insulative materials.

Antistatic Sleeve

The sleeve provides static dissipation over the insulative material required for the antenna's performance. Used with either the free-standing, coax, or active versions of Novx antennas.

Ancillary Products

Remote Probe

The Remote Probe allows for real-time contact performance testing down to component pin-level and test handlers, etc. Very high input impedance provides extremely accurate and product safe contact measurement levels. The probe is an optional purchase for use with the Novx Series 5000 Voltage Detection System.

Wrist-Strap Box

The Remote Wrist-Strap Box is a single box with dual operator monitoring capability standard, or “splitter” wrist-strap boxes with single monitored operator and guest jack in each box. The remote box is an optional purchase for use with the Novx Series 53xx and/or the Series 300 Workstation and Process Equipment Monitors. Single or splitter cable depending on installation requirements.

Cases

Novx Series 5000 Voltage Detection System.

Charge Plates

The Novx Charge Plate Assemblies are an optional purchase when buying the Novx Series 53xx Workstation and/or the Novx Series 5000 Voltage Detection System.

- The 3"x3" provides a known 20pf. capacitance plate for conducting ionization balance or decay tests for use in confined locations. Assembly includes interface cable.
- The 6"x6" provides a known 20pf. capacitance plate for conducting industry standard ionization tests. Assembly includes interface cable.

Mounting Brackets

Novx's brackets are an optional purchase when buying the Novx Series 53xx and/or Series 300 Workstation and/or the Novx Series 5000 Voltage Detection System. Brackets are available for custom antenna installations.

Connectors

Novx carries various types of connectors:

- BNC-to-SMA Connector is used for connecting the Novx Series 5000 Voltage Detection System assemblies.
- SMA "T" Connector is used for connecting multiple antennas to one instrument and can be used with the Novx Series 5000 Voltage Detection System or Novx Series 53xx Workstation/Equipment Monitors.
- Banana-to-BNC Connector is used for miscellaneous connections and user-specific tests.

