



ESD Sensing & Process Monitoring
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16-channel Ground Noise Monitoring

NOVX MULTICHANNEL GROUND MONITOR M116

The Novx M116 Multichannel Ground Monitor is a dedicated microprocessor-based instrument built to provide continuous monitoring of multiple ground points. This 16-channel instrument features audible alarms with red/green LEDs per channel for stand-alone operation and output for direct interface to PEMS, machine tool controllers, or other facility monitoring systems. The instrument can detect very low-level reference ground problems, AC spikes, or complete ground loss and can be configured to measure either resistance or voltage.

Features and Benefits

- 16-channels
- Microprocessor-based
- Adjustable Alarm Set-points Per Channel
- Low Power
- Ground Noise Detection
- Digital I/O Communication
- Proactive Control
- Bi-directional communication for proactive control
- RS-485, MODBUS, Ethernet, Wireless
- No modification to standard Novx products with data output capability
- Communication to Novx PEMS
- The ROI is improved significantly when compared to alternative instrumentation
- Minimizes cabling, installation and operational costs by using "daisy-chain" or direct communication protocol
- Capable of monitoring all grounded areas within a manual workstation, production line or fully-automated process tool
- Captures real-time events and report the alarm conditions to PEMS or machine tool controllers

Specifications

Ground Monitor Channels	16
Ground Test Inputs	Filtered
Applied Voltage/Current	045V to 0.4 mA
Set-point Range	1 to 250W
Alarm Set-point	16 Channels
Novx Com	RS-485, MODBUS, Ethernet, Wireless Ethernet (802.11)
Open Circuit Voltage	<50 mV
Auxiliary Alarm Output	Open Collector
Alarm (per channel)	Audible + LEDs
Power Supply	+5 VDC \pm 5% @ 0.2A
Dimensions	5.3"W x 4.5"D x 1.5"H
Weight	1.2 oz
Enclosure	Stainless Steel

Special Features

Factory Automation: The M116 is a dedicated ground monitor with enough channels to monitor all the areas of concern within a manual workstation, production line or fully-automated process tool. This instrument will capture real-time events and report the alarm conditions to PEMS or machine tool controllers. Everything else within the workcenter is secondary to the performance of the reference ground in terms of your ESC/ESD and Process Environment Control Program.

A bad ground, disconnected or broken wire, or AC noise or spikes can cause yield or production-related problems by the movement of your products.

All alarm thresholds are set through communication using the Novx Calibrator Reader Program or internal push buttons.

Options

Continuous Monitoring: Process Environment Monitoring System (PEMS) will interface to any mix of up to 1,024 Novx instruments directly and provides remote monitoring and control capabilities.

Calibration

Instruments are shipped already calibrated and certified. Calibration must be validated annually to meet ISO certification compliance requirements.

Customer Support

Technical support, custom training and optional extended Service Agreements are all available. Contact your sales representative for details. Specifications are subject to change.



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