



ESD Sensing & Process Monitoring
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BV/Current and Ground Monitoring

NOVX WORKSTATION MONITOR SERIES 400

The Novx Series 400¹ Workstation Monitor is a full-featured multi-microprocessor controlled instrument with alert notification and digital I/O capability with precise real-time, ESC/ESD, and process environment monitoring that notifies you of any occurrence. The design of this product is based on a modular platform so you can select the parameters that apply for every workstation independently. The architecture consists of three plug-in modules that can be purchased when the instrument is ordered, or added at a later date.

Features and Benefits

- Body Voltage or Current Detection
- Particle Counter Interface
- Ground Monitoring
- Process Environment Monitoring, Control and Data Output
- User-Programmable Alarm Set-points
- Proactive Control
- Modular Construction
- RS-485, Modbus, Ethernet, Wireless
- Critical Alert Notifications
- All process features are plug-in modules that can be added at any time
- Operator monitoring with current or voltage detection
- Communication for interface to the Novx PEMS or other data acquisition software
- The ROI is improved significantly when compared to previous instrumentation
- Bi-directional communication for proactive control
- Critical off-site and on-site alarm notification for production staff and management

¹ U.S. Patent No. Pending

Specifications

Particle Counter Sensing Interface	
Data acquisition and power available for most popular sensors	
Body Voltage or Current Detection	
Applied Voltage (dual-wire)* ¹	<0.5V
Adjustable Alarm (1 and 2)*	1-10V
Accuracy*	±0.5V
Wrist-strap Voltage Threshold*	0.1-10.0V
Applied Voltage (single-wire)*	0V
Wrist-strap Current Threshold*	0.1-4.0 nAmps
Wrist-strap Alarm Delay*	1-25 sec
Ground Monitoring	
Range	1-20Ω
Accuracy	0.5Ω
Applied Voltage (open circuit)	<0.5V
Applied Current (short circuit)	<1 mA
GND 1 (low or high)	1-25Ω
GND 2 (low or high)	1-25Ω
General	
Communication	RS-485, Modbus, Ethernet, Wireless Ethernet (802.11a/b/g)
Critical Alert Notifications	Cellular, Pager, Email
Audible Alarms	Off, High, Low
Power Supply	100-240 VAC, 50/60 Hz
Dimensions	2.5" W x 3" H x 5.5" D
Weight	1.5 lb
Enclosure	Stainless Steel

* = Programmable.

¹ = Open circuit voltage measured with Fluke 45 meter.

Special Features

Particle Counter Interface: A dedicated microprocessor performs the particle count/system status reporting functions.

Body Voltage or Current and Ground Monitoring: Dual-wire body voltage/current or single-wire detection. Current detection with zero applied voltage to the operator. Dual-channel ground monitoring is also standard.

Communication: Two-way communication for monitoring and proactive control. Protocol is switch selectable between Novx Com or Modbus. Four options are available.

Alert Notifications: On-site alarm monitoring for production staff to watch an unlimited number of tools which is useful for any industry or process where timely alerts are necessary; alarm message identifies the tool or process point going into alarm. Off-site alarm monitoring for non-response personnel such as managers and supervisors who need to know that there is a process or tool issue.

Options

Continuous Monitoring: The 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. The combination of hardware and software allows the user to monitor, analyze, and control processes at all hours, all the time.

Calibration

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

Customer Support

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



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