



Multi-channel Voltage **Detection**

NOVX MODEL 3352/3362

Simco-Ion's Novx brand of Passive (Model 3352) and Active (Model 3362) Multi-fan Closed-Ioop Ionizer Controllers provide the capability to simultaneously detect, measure, record and monitor electrostatic voltages in multiple locations. The versatile antennas used with these systems allow their use in a variety of applications including monitoring sensitive workstations, in-tool voltages, or ionizer performance with the option of closed-loop control to select ionizer products. Up to 3 sensors can be connected to an individual instrument. This multi-channel capability provides a cost-effective monitoring solution for multiple areas or ionizers. Data input is actively monitored and logged with time stamps using Calibrator Reader. The instruments have user settable thresholds and alarm levels that provide a proactive safeguard for critical areas when interfaced to an alarm output. Out of range conditions can trigger a remote alarm light or audible alarms, shut down a critical process, or make adjustments to an ionizing fan.

Features

- · Digital, microprocessor-based controllers, multi-channel, digital I/O, auxiliary I/O, local addressability, RS-485/Modbus or Ethernet data output
- Passive (unpowered) and active antenna configurations
- · Precision resolution
- Programmable closed-loop control for up to 3 SSDC ionizer fans or a 3-fan blower
- Programmable alarm set-points with tool shutdown option
- Voltage/polarity displays, local red/green LEDs
 Visual indicators at the instrument each channel

Benefits

- · Provides easy integration, cost/performance advantages over other monitoring solutions, direct communication to other Novx instruments or to a tool controller.
- Wide variety of applications: monitor voltage at distances and ionizer balance; perform In Situ decay testing without the added expense of a CPM
- Measure and record voltage down to 0.1V
- Enable closed-loop feedback control to select ionizers based on balance or decay test results
- Reduce process variations, decrease scrap/rework, and improve process yields





Specifications

	Model 3352	Model 3362
Input Voltage	24 VDC	24 VDC
Capacity	1, 2 or 3 fans	1, 2 or 3 fans
Reporting Range	0 to ±5000V	0 to ±150V
Accuracy	0.5V for <20V; $\pm 5\%$ for >20V	1V for <20V; $\pm 5\%$ for >20V
Audible Alarm Set-points	±0.5V (min)	±1V (min)
LEDs/Channel	Red/green or alarm indicator	Red/green or alarm indicator
Alarm Set-point	Programmable	Programmable
Zero Set-point	Programmable	Programmable
Aux Out	Open collector	Open collector
Output Signals	Digital	Digital
Antennas	up to 3 channels	up to 3 channels
Decay Testing	NA	up to 3 channels
Communication	Novx Com RS-485/Modbus, Ethernet	Novx Com RS-485/Modbus, Ethernet
Digital Display/Channel	4-Digit	4-Digit
Dimensions	2.0W x 6.8D x 6.5H in. (5.1W x 15.2D x 16.5H cm)	2.0W x 6.8D x 6.5H in. (5.1W x 15.2D x 16.5H cm)
Weight	2.1 lb (0.95 kg)	2.2 lb (1 kg)
Enclosure	Stainless Steel	Stainless Steel
Warranty	Two-year limited warranty	Two-year limited warranty
Certifications		
Power Adapter 14-21327		
Input Voltage	100-240 VAC 50/60 Hz	
Output Voltage	24 VDC, 30 W	
Dimensions	4H x 1.9W x 1.1D in. (103 x 42 x 29 mm)	
Weight	5 oz (140 g)	
Certifications		

Ordering Information

91-3352-01	Novx 3352 Passive Multi-fan Closed-loop Ionizer Controller	
91-3362-01	Novx 3362 Active Multi-fan Closed-loop Ionizer Controller	
32-0220	Mounting Bracket, "L" (2 pcs per controller)	
33-0520-5	Passive Antenna, 1.75" x 1" Tall with SMA-to-SMA Cable (5 ft)	
33-0504	Passive Antenna, 1.75" x 4" Tall with SMA-to-SMA Cable (5 ft)	
33-0510-хх	Passive Antenna, 1"Tall with SMA-to-SMA X ft Cable (xx = 5 or 15)	
33-0509-15	Active Antenna Assembly, 5" x 0.5" Tall with 15 ft Triaxial Cable	
33-0523-XX	Active Antenna Assembly, 1.75" x 1" Tall with X ft Triaxial Cable (X = 5 or 20)	
33-0507-5	Active Antenna Assembly, 1.75" x 4" Tall with 5 ft Triaxial Cable	
14-21327	100-240 VAC to 24 VDC Power Adapter	

Calibration

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

Applications

The **Novx 3352 Passive Multi-fan Closed-loop Controller** connects with passive antennas to detect low level voltage change and ion current (≤400V) with sensitivity down to 1V. Antenna connection configurations:

- · Monitor voltages on moving targets
- Monitor ionizer balance
- Provide closed-loop control to ionizer fans
- Distinguish the proximity of voltages from steady state DC ionizer signals

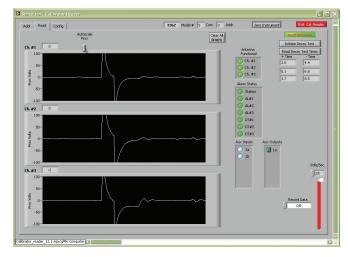
The **Novx 3362 Active Multi-fan Closed-loop Controller** connects to active antennas, providing similar voltage and ion current detection capability as the 3352 with the addition of decay tests. The powered antenna acts as a charged plate monitor (CPM) to periodically measure ionizer discharge times at programmable frequencies. A "Decay Test" button is provided on the front panel of the 3362 for manually initiating an ionizer decay test.

Antenna connection configurations:

- Monitor voltages on moving targets
- · Monitor ionizer balance
- Distinguish the proximity of field from steady state DC ionizer signals
- Perform decay testing automatically or on command

Special Features

Both the Novx 3352 and 3362 feature a front panel which have an LCD screen that displays the voltage and alarm status of each of the three channels in real-time. Each interfaces with the Novx Calibrator_Reader for full setup, visual monitoring, and logging capability. Files can be exported for Excel graphing and analysis. These instruments can operate as stand-alone systems and interface to the process for initiated response.





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