



# Standalone Digital AeroBar<sup>®</sup>

## MODEL 5225S

Simco-Ion's Standalone Digital AeroBar Model 5225S ionizing bar is specifically designed to provide high performance with simple integration and operation. Adjustable and precise, easy-to-use digital settings allow the AeroBar to be used in a multitude of applications, ranging from inside tools to workstations and cleanroom areas. A choice of ionization modes, output voltage and timing provide versatility to meet static charge neutralization requirements.

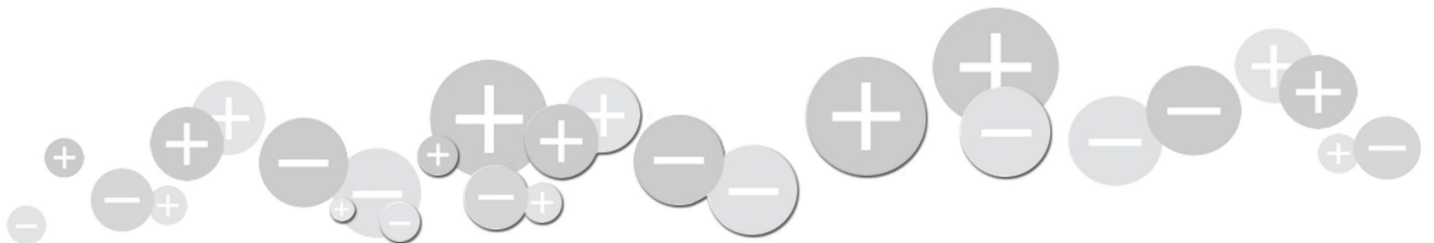
An aerodynamic design and cleanroom-compatible materials allow the Model 5225S to deliver complete and efficient ionization in mini-environments and cleanrooms without disrupting laminar airflow. Handheld Remote enables easy setup and adjustment, and an FMS output permits easy hardwired integration to a facility alarm system.








### Features

- All parameters are held within the AeroBar; no controller required
- Fully adjustable parameters for each AeroBar utilizing Pulsed DC or Steady-state DC modes
- Several AeroBar lengths, including three lengths specifically designed for EFEMs
- Ion current monitoring
- FMS alarm output
- Single-crystal silicon emitter points or titanium emitter points are also available

### Benefits

- Continued optimal performance each time the system is powered up
- Ionization can be fine-tuned for individual static charge requirements
- Flexible lengths mean versatility for a variety of applications
- More consistent ion output and stable performance
- Alarm capability for ensured performance
- Ultra-clean emitter point material, with no risk of wafer contamination from dopants or metals



Specifications	
<b>Input Voltage</b>	24 VAC, 50/60 Hz, 1W (typ)
<b>Output Voltage</b>	0-20 kVDC, ±10% for each polarity on an individual AeroBar; positive or negative output levels can be adjusted separately with IR Handheld Remote
<b>Output Current</b>	<15 µA, current and voltage limited
<b>Connectors</b>	RJ-11 modular jack receptacles
<b>Regulation</b>	Output and balance stability is achieved by independently regulating the ion emission current of each polarity at each ionizer
<b>Timing</b>	Both on/off timing for each polarity are settable from 0-10 sec @ 0.1 sec increments; LEDs on the bar indicate the polarity of the ion emission
<b>Operating Mode</b>	Pulsed DC, steady-state DC or standby
<b>Alarm</b>	Alarm activates when the bar is no longer able to maintain the preset ion output level; alarm is displayed visually by a red LED in the middle of the ionizer chassis; settable threshold alarm limits for predictive maintenance
<b>Emitters</b>	Single-crystal silicon or titanium replaceable emitter points
<b>Maintenance</b>	Annual, semi-annual or quarterly emitter point cleaning depending on process sensitivity and presences of AMCs in environment
<b>Ozone</b>	<0.005 ppm
<b>EMI</b>	Below background level
<b>Cleanliness</b>	ISO 14644 Class 1
<b>Indicators</b>	Individual red LEDs flash on for each polarity; middle red LED flashes rapidly when in alarm, all 3 LEDs blink at once when communication occurs
<b>Enclosure</b>	ABS plastics, fire retardant
<b>Dimensions</b>	2.1"H x 1.2"W x 22.4, 28.4, 35.7, 44.4, 55.6, 64.4, 75.5, 84.4"L (53 x 30.5 x 569, 721, 907, 1128, 1412, 1636, 1918, 2144 mm)
<b>Weight</b>	1.5 lb (1.02 kg) for a 22" (55.88 cm) bar (approx. 6 oz per additional ft/0.17 kg per additional 30 cm)
<b>Warranty</b>	Two-year limited warranty
<b>Certifications</b>	SEMI F47   
Wall Transformer Kit 33-1422-01	
<b>Input Voltage</b>	120 VAC ±10%, 60 Hz
<b>Output Voltage</b>	24 VAC, 60 Hz @ 500 mA, ±5%
<b>Dimensions</b>	3.0"H x 1.9"W x 1.6"D (76.2 x 48.26 x 40.64 mm)
<b>Weight</b>	0.9 lb (0.4 kg)
<b>Certifications</b>	 
Wall Transformer Kit 33-1432-01 (EU) & 33-1435-01 (UK)	
<b>Input Voltage</b>	230 VAC ±10%, 50 Hz
<b>Output Voltage</b>	24 VAC, 50 Hz @ 500 mA, ±5%
<b>Dimensions</b>	3.2"H x 2.2"W x 1.9"D (81.28 x 55.88 x 48.26 mm)
<b>Weight</b>	0.9 lb (0.4 kg)
<b>Certifications</b>	 

## Simple Integration

The AeroBar Model 5225S is powered by a 24 VAC source, eliminating the need for an external controller. Wall transformer kits (24 VAC output) are available for easy installation using flat modular cables. An FMS output signal from the bar provides an immediate warning in the event of an alarm.

Several lengths of the AeroBar are available, including three specially designed for two, three, and four EFEM load port applications. Multiple AeroBars can be installed in either a daisy-chain or drop-tee configuration, creating a system that is versatile and easy to install in any customized equipment or application.

## Handheld Remote

As part of our line of digital ionizers, the Model 5225S provides excellent reliability and performance. The Model 5225S, with its infrared Handheld Remote, provides exacting parameters and easy setup. It's ideal for retrofits, low volume tools, systems with programmable logic controllers (PLC) or cleanroom work areas, where the performance, stability and reliability of digital ionization are desired.



## Ordering Information

<b>91-5225SU-xxR</b>	AeroBar with <i>silicon</i> emitter points in (xx = ) -22, -28, -44, -64, -84" nominal bar lengths and the following EFEM configuration lengths 36" (2 loadport), 56" (3 loadport), 76" (4 loadport)
<b>91-5225SC-xxR</b>	AeroBar with <i>titanium</i> emitter points in (xx = ) -22, -28, -44, -64, -84" nominal bar lengths and the following EFEM configuration lengths 36" (2 loadport), 56" (3 loadport), 76" (4 loadport)
<b>91-5570</b>	IR Handheld Remote
<b>33-1422-01</b>	Wall Transformer Kit, 120V/24 VAC 500 mA, 16' (4.8m) cable with j-box, US
<b>33-1432-01</b>	Wall Transformer Kit, 230V/24 VAC 500 mA, 16' (4.8m) cable with j-box, EU
<b>33-1435-01</b>	Wall Transformer Kit, 230V/24 VAC 500 mA, 16' (4.8m) cable with j-box, UK
<b>33-1447-01</b>	Wall Transformer Kit, 230V/24 VAC 500 mA, 16' (4.8m) cable with j-box, AU/CN

**SIMCO ION**<sup>TM</sup>  
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DS-5225S\_V12 - 2/21  
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