



# AeroBar Ionizer

## MODEL 5285

AeroBars are designed to control static charge in mini-environments, laminar flow hoods and workstations. The AeroBar Model 5285 features a unique aerodynamic design that ionizes a local area without disrupting laminar flow. Its pulsed DC technology, combined with optimized emitter point spacing, provides uniform performance over the work area.

As with ceiling emitters, output and balance can be adjusted at each bar. AeroBars come in a variety of lengths and installation is fast, using a variety of easy-mount clips. An enhanced model, Model 5285e, features ion current regulation and an operational failure alarm.

### Features and Benefits

- Patented sequenced bipolar ionization
- Unique aerodynamic design
- Individual positive and negative power controls at each bar
- Ion current regulation and operational failure alarm (Model 5285e only)
- Settable on and off times provide the most efficient ionization performance, minimizing recombination
- Ionizes local areas without disrupting laminar flow
- Bars can be individually fine-tuned
- Ion current regulation maintains ion output and balance and a red LED at each AeroBar ensures quick notification of alarm conditions



# Specifications

<b>AeroBar Model 5285/5285e</b>	
<b>Input voltage</b>	24 VAC max., 50/60 Hz, 1 watt
<b>Output current</b>	<15 microamps; current and voltage limited to eliminate shock hazard
<b>Connectors</b>	Telco RJ-11 modular jack receptacle on each end of the AeroBar
<b>Regulation</b>	(Model 5285e) Output and balance stability is achieved by independently regulating the ion emission of each polarity
<b>Output control</b>	Each AeroBar has controls that independently adjust both positive and negative output
<b>Timing</b>	Precise timing (0-9.9 sec) is supplied by the controller. Two red LEDs on each AeroBar indicate the polarity of the ion emission
<b>Ion emission</b>	Pulsed DC
<b>Emitter points</b>	Single-crystal silicon, machined titanium, or tungsten alloy. All are replaceable, with an estimated life of 2-3 years, depending on material and environment
<b>Maintenance</b>	Annual calibration recommended; emitter point inspection and cleaning as environment conditions require
<b>Alarm</b>	Alarm operates when the AeroBar is no longer able to maintain the preset ion output regulation Red LED at the AeroBar and at the Controller (if featured) indicate an alarm condition; optional audible alarm sounds at the 5024 Controller when an alarm event occurs at any AeroBar
<b>Ozone</b>	<0.005 ppm. (24-hour accumulation)
<b>EMI</b>	Below background level
<b>Mounting</b>	A variety of mounting methods and clips are available
<b>Dimensions</b>	2.1H x 1.2W x 22, 28, 44, 64, or 84L inches (5.3H x 3.0W x 55.8, 71.1, 111.8, 162.6, or 213.4 cm)
<b>Weight</b>	6 oz per foot of bar length (0.17 kg per 30 cm)
<b>Warranty</b>	Two year limited warranty
<b>Certifications</b>	SEMI F47



## Ordering Information

<b>91-5285-**</b>	Model 5285 AeroBar with tungsten wire emitter points
<b>91-5285C-**</b>	Model 5285 AeroBar with Class 1 titanium emitter points
<b>91-5285U-**</b>	Model 5285 AeroBar with silicon emitter points
<b>91-5285E-**</b>	Model 5285E AeroBar with alarm, tungsten wire emitter points
<b>91-5285EC-**</b>	Model 5285E AeroBar with alarm, Class 1 titanium emitter points
<b>91-5285EU-**</b>	Model 5285 AeroBar with alarm, silicon emitter points
<b>** choose 22, 28, 44, 64, or 84 inch bar length</b>	
<b>91-5024-CE</b>	Model 5024 Controller, supports up to 4 AeroBars
<b>91-5024E-CE</b>	Model 5024 Controller with alarm, supports up to 20 AeroBars
<b>91-5024E-CE-ALM</b>	Model 5024 Controller with audible alarm, supports up to 20 AeroBars

## Power and Control

The Model 5285 AeroBar is powered by the Model 5024 controller. Depending on the version ordered, the Model 5024 supports up to four or 20 AeroBars, with visual and audible alarm options. Visual and audible alarms mirror the alarm LED on the AeroBar, and Controllers with the alarm options also support FMS (facility monitoring systems) with an optional module connection.



The Model 5024 Controller supports either up to four or up to twenty AeroBars, with or without visual or audible alarms.

## Emitter Point Cleanliness

The AeroBar operates with three emitter point materials: single-crystal silicon, machined titanium, and tungsten alloy. All points are replaceable. The choice of three materials provides versatility, allowing the AeroBar be to used in the cleanest of environments. Single-crystal silicon is still the only proven better than ISO Class 1 emitter point material, providing the cleanest alternative in static charge control. Both titanium and tungsten alloy points are appropriate where users must avoid a specific material as a possible contaminant.



DS-5285 - Ver.1  
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