



# ionONE Spot Ionizers

## MODEL MICRO S MODEL MICRO SA with Air Assist

Simco-Ion's ionONE Spot Ionizers are designed for the control of static electricity and charge neutralization for small areas. Typical applications include inside production tools, inspection stations, and conveyor lines when the product to be protected is 3-12" (7-30 cm) distant. The Model Micro S Spot Ionizer is suited for applications where airflow from HEPA filters or fans is present, or when the area to be protected is in close proximity. The Model Micro SA Spot Ionizer uses compressed dry air (CDA) to provide the airflow necessary to ionize a nearby confined area when there is no existing airflow.

Both the Model Micro S and Micro SA provide excellent self-calibrating ion balance. An LED conveniently mounted on the ionizer will indicate the device is powered on.

### Features

- Compact design
- Self-balancing technology
- Easy maintenance
- Power Indicator status LED
- Air assist version for precise ionized air delivery

### Benefits

- Fits into the tight confines of any process tool or application
- No adjustments needed to maintain the required balance
- Only occasional cleaning of the emitter points is required
- Convenient indication of power applied to the ionizer
- Efficiently delivers ionization to target area



## Specifications

ionONE Models Micro S & Micro SA	
<b>Input Voltage</b>	Isolated 12 VDC, 30 mA
<b>Balance</b>	Micro S: $\pm 30V$ ; Micro SA: $\pm 20V$
<b>Discharge</b>	Micro S: $< 10$ sec @ 3" (76 mm); Micro SA: $< 8$ sec @ 6" (150 mm), 20 lpm airflow (min) <sup>1</sup>
<b>Coverage Area</b>	Micro S: 6" x 6" (150 x 150 mm) @ 3"; Micro SA: 6" x 6" (150 x 150 mm) @ 6"
<b>Air Supply</b>	Clean Dry Air (CDA)
<b>Ambient AirFlow</b>	200 ft/min (1.0m/sec) minimum recommended
<b>Air Fitting</b>	4 mm OD, barbed
<b>Emitter Points</b>	Stainless Steel
<b>Air Consumption</b>	Micro SA: 10-30 liters/min
<b>Audible Noise</b>	Micro S: 47 dB @ 1' distance; Micro SA: 67 dB @ 1' distance using 20 lpm air
<b>Connectors</b>	3 pin modular
<b>LED Indicators</b>	Blue "on" POWER; blue "off" NO POWER
<b>Status Output</b>	Facility Monitoring System (FMS) capable
<b>Cleanliness</b>	Meets ISO 14644-1 Class 5 (Fed. Std. 209E Class 100)
<b>Operating Env.</b>	Temperature 40-122°F (5-50°C); humidity 30-70% RH, non-condensing
<b>Ozone</b>	$< 0.05$ ppm
<b>EMI</b>	Below background levels (recommended 2" minimum distance)
<b>Mounting</b>	0.24" (6 mm) flange on top and bottom with 2.5 mm mounting holes spaced 1.3" (33 mm) apart; hook and loop adhesive fastener also provided
<b>Enclosure</b>	Polycarbonate-ABS plastic blend
<b>Dimensions</b>	2L x 1.6W x .65H" (52 x 41 x 16.5 mm) flange adds 0.24" (6 mm) to length on each end; air fitting connection on Micro SA adds 0.40" (10 mm) to length of chassis
<b>Weight</b>	Micro S: 0.56 oz (16g); Micro SA: 0.67 oz (19g)
<b>Warranty</b>	One Year Limited
<b>Certifications</b>	RoHS 2 Compliant
AC Adaptor 14-21243	
<b>Input Voltage</b>	90-260 VAC $\pm 10\%$ , 50-60 Hz
<b>Output Voltage</b>	12 VDC @ 125 mA, $\pm 5\%$ max load
<b>Dimensions</b>	2.9H x 1.7W x 1.34D in. (74 x 43.5 x 34 mm)
<b>Certifications</b>	RoHS Compliant

1. Tested in accordance with ANSI/ESD STM3.1-2006.

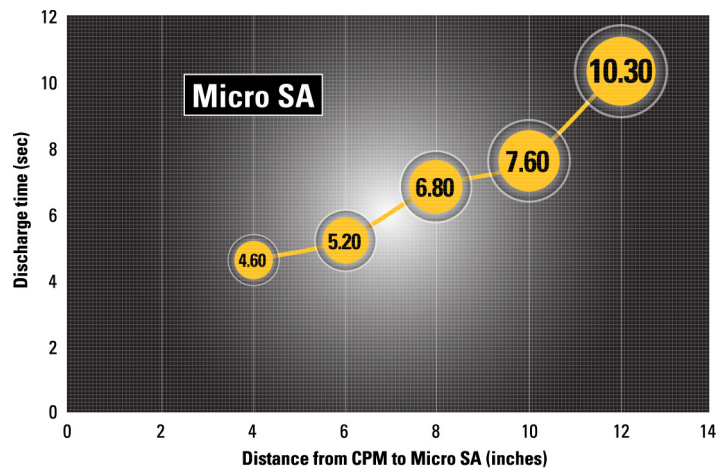


AC Adaptor Kit 14-21243 includes interchangeable US, UK, Continental Europe and China electrical connectors.

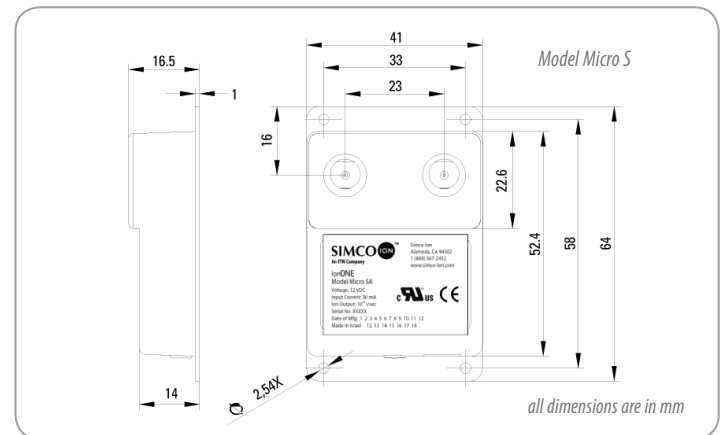
## Self-balancing Piezoelectric Technology

Both the ionONE Model Micro S and Model Micro SA Spot Ionizers use a piezo ceramic material between two electrodes to form a high voltage transformer. The end result is a flat, compact and lightweight ionizer that generates positive and negative ions in pulse mode from the emitter points.

## Discharge Times



Results are for a static charge reduction of 1000-100V; 17 lpm air flow into Micro SA. Testing in accordance with ionization standard ANSI/ESD STM3 1-2006 of the ESD Association. Results may vary depending upon application and environment.



## Ordering Information

92-Micro S-02	Model Micro S Spot Ionizer, includes 12 VDC adapter
92-Micro SA-02	Model Micro SA Spot Ionizer with Air Assist, includes 12 VDC adapter
91-Micro S-02	Model Micro S Spot Ionizer
91-Micro SA-02	Model Micro SA Spot Ionizer with Air Assist

**SIMCO ION**™

An ITW Company

DS-ionONE\_V3 - 06/13  
© 2013 Simco-Ion  
All rights reserved.

**Simco-Ion**

Technology Group  
1750 North Loop Rd., Ste 100  
Alameda, CA 94502

Tel: 800.367.2452 (in USA)  
Tel: 510.217.0600

ioninfo@simco-ion.com  
www.simco-ion.com