SIMCO ION™
An ITW Company

Ionization Solutions

WWW.SIMCO-ION.COM

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.

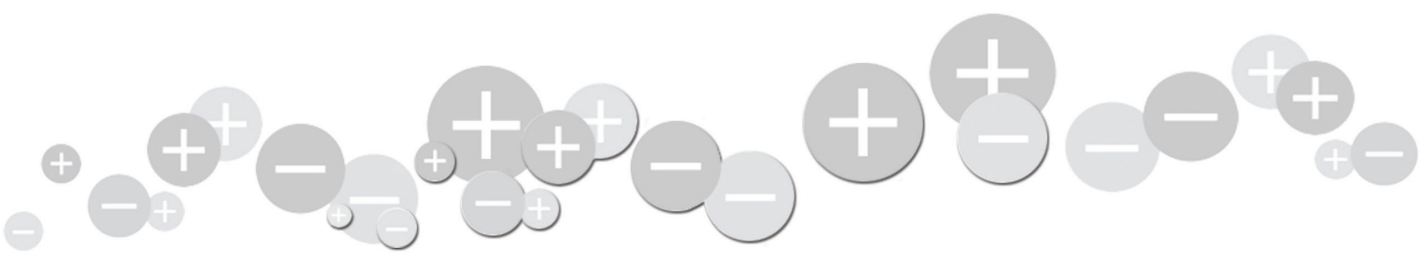
Both the Model Micro S and Micro SA provide excellent self-calibrating ion balance. An LED conveniently mounted on the ionizer will indicate the device is powered on.

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



ionONE Models Micro S & Micro SA	
Input Voltage	Isolated 12 VDC, 30 mA
Balance	Micro S: <±30V; Micro SA: <±20V
Discharge[1]	Micro S: <10 sec @ 3" (76 mm); Micro SA: <8 sec @ 6" (150 mm), 20 lpm airflow (min)
Coverage Area	Micro S: 6" x 6" (150 x 150 mm) @ 3"; Micro SA: 6" x 6" (150 x 150 mm) @ 6"
Air Supply	Clean Dry Air (CDA)
Ambient AirFlow	200 ft/min (1.0m/sec) minimum recommended
Air Fitting	4 mm OD, barbed
Emitter Points	Stainless Steel
Air Consumption	Micro SA: 10-30 liters/min
Audible Noise	Micro S: 47 dB @ 1' distance; Micro SA: 67 dB @ 1' distance using 20 lpm air
Connectors	3 pin modular
Indicators	Blue "on" POWER; blue "off" NO POWER LEDs
Status Output	Facility Monitoring System (FMS) capable
Cleanliness	Meets ISO 14644 Class 5 (Fed. Std. 209E Class 100)
Operating Env.	Temperature 40-122°F (5-50°C); humidity 30-70% RH, non-condensing
Ozone	<0.05 ppm
EMI	Below background levels (recommended 2" minimum distance)
Mounting	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
Enclosure	Polycarbonate-ABS plastic blend
Dimensions	2"L x 1.6"W x .65"H (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
Weight	Micro S: 0.56 oz (16g); Micro SA: 0.67 oz (19g)
Warranty	One Year Limited
Certifications	CE c UL us RoHS2
AC Adaptor 14-21243	
Input Voltage	90-260 VAC ±10%, 50-60 Hz
Output Voltage	12 VDC @ 125 mA, ±5% max load
Dimensions	2.9"H x 1.7"W x 1.34"D (74 x 43.5 x 34 mm)
Certifications	CE c UL us RoHS2

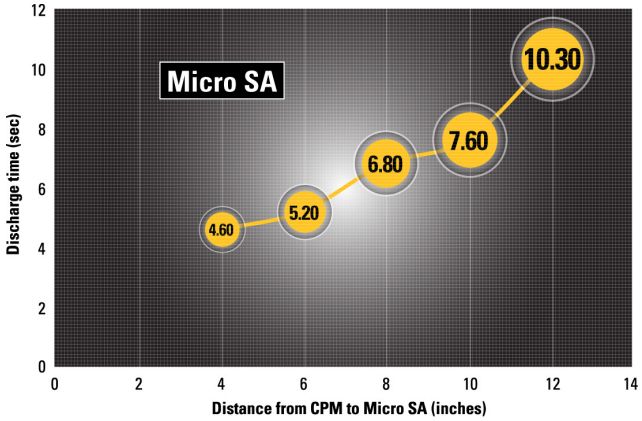
1. Tested in accordance with ANSI/ESD STM3.1-2015.

AC Adaptor Kit 14-21244 includes interchangeable US, UK, Continental Europe and China electrical connectors.

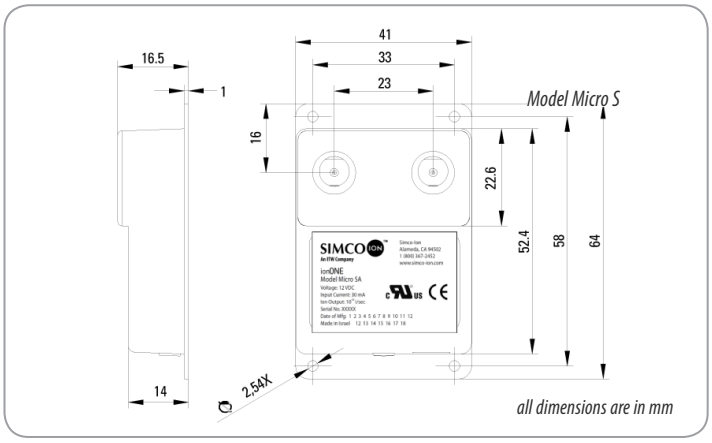
Self-balancing Piezoelectric Technology

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 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

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