

SIMCO ION™
An ITW Company

Ionization Solutions

WWW.SIMCO-ION.COM

ionONE Spot Ionizers

MICRO S
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 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 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.

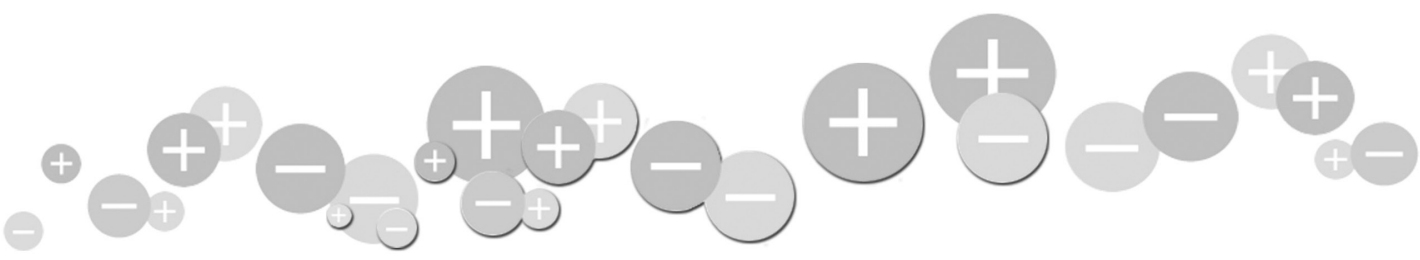
Both the Micro S and Micro SA provide excellent self-calibrating ion balance. An LED conveniently mounted on the ionizer will indicate the device is powered on.

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 the target area



ionONE Micro S and Micro SA	
Input Voltage	Isolated 12 VDC, 0.03A
Discharge[1]	Micro S: <10 sec @ 3" (7.62 cm) Micro SA: <8 sec @ 6" (15.2 cm), 20 lpm airflow (min)
Balance	Micro S: <±30V; Micro SA: <±20V
Coverage	Micro S: 6" x 6" (15.2 x 15.2 cm) @ 3" (7.62 cm) Micro SA: 6" x 6" (15.2 x 15.2 cm) @ 6" (15.2 cm)
Emitter	Stainless Steel
Cleanroom Class	ISO 14644-1 Class 5
LED Indicator	Blue "on" POWER; blue "off" NO POWER
Air Supply	Input: Clean Dry Air (CDA) Consumption: Micro SA: 10-30 lpm Flow: 200 fpm (1.0m/sec) minimum recommended Air Fitting: 0.16" (0.40 cm) OD, barbed
Audible Noise	Micro S: 47 dB @ 12" (30.5 cm) distance Micro SA: 67 dB @ 12" (30.5 cm) distance using 20 lpm air
Connector	3 pin modular
Status Output	Facility Monitoring System (FMS) capable
Ozone	<0.05 ppm
EMI	Below background levels; recommended 2" (5.08 cm) minimum distance
Operating Env	40-122°F (5-50°C); 30-70% RH, non-condensing
Mounting	0.24" (0.61 cm) flange on top and bottom with 0.25 cm mounting holes spaced 1.3" (3.30 cm) apart; hook and loop adhesive fastener also provided
Enclosure	Polycarbonate-ABS plastic blend
Dimension	2.5"L x 1.6"W x 0.65"H (6.35 x 4.06 x 1.65 cm) with flange; air fitting connection on Micro SA adds 0.40" (1.02 cm) to length of chassis
Weight	Micro S: 0.035 lb (0.016 kg); Micro SA: 0.042 lb (0.019 kg)
Warranty	One year limited warranty
Certification	
AC Adaptor 14-21244	
Input Voltage	90-260 VAC ±10%, 50-60 Hz
Output Voltage	12 VDC @ 125 mA, ±5% max load
Dimension	2.9"H x 1.7"W x 1.34"D (7.37 x 4.32 x 3.40 cm)
Certification	

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

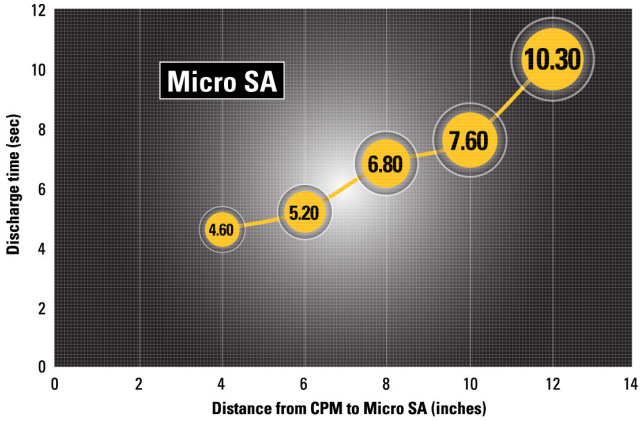


AC Adaptor Kit 14-21244 includes interchangeable US, UK, Continental Europe, and China electrical connectors.

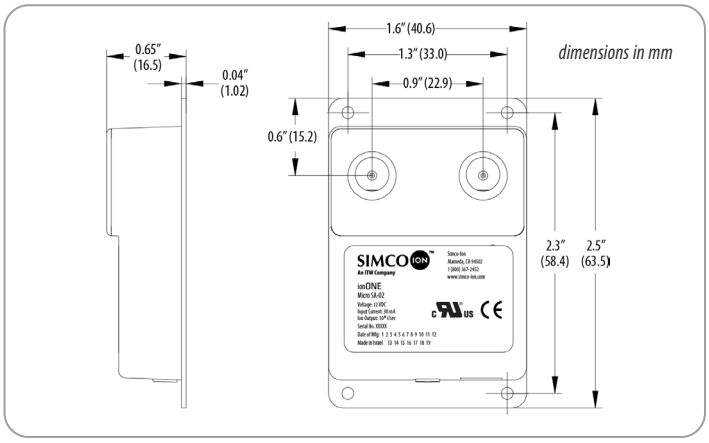
Self-balancing Piezoelectric Technology

Both the ionONE Micro S and 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 airflow into Micro SA. Testing in accordance with ionization standard ANSI/ESD STM3.1-2015 of the ESD Association. Results may vary depending upon application and environment.



Ordering Information

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

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