

Model 7300

CoreStat® Self-Balanced DC Bar Ionizer



FEATURES

- Steady-State DC Ion Emission
- Intrinsic Self-Balance Technology
- Low Offset Voltage
- Audio & Visual LED Alarms
- FMS Monitoring Interface

BENEFITS

- No Calibration
- No Swing Voltage
- Less Maintenance

APPLICATIONS

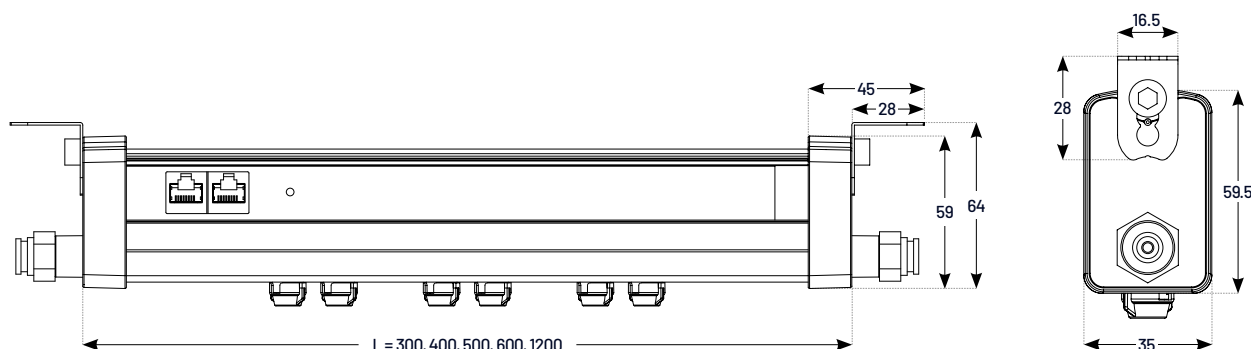
Model 7300 CoreStat® Self-Balanced DC Bar Ionizer is designed to provide ionization in the ESD sensitive handling areas such as semiconductor back-end, surface mount and general electronic component handling applications. Steady-State DC Ionization does not make swing voltage signals which could lead an ESD event root cause in processes.

Model 7300 CoreStat® Self-Balanced DC Bar Ionizer is designed versatile ESD control applications, especially suited for space limited environment such as automated process tool and manual assembly areas. Intrinsic self-balanced power supply technology removed calibration procedure to maintain low offset voltage. With LED display and output audio alarms, users can identify failure status or cleaning cycle time.

SPECIFICATIONS

Input Voltage	24V DC, RJ-45 terminal	Monitoring	RJ-45 Interface
Output Voltage	0 to ± 5 kV DC, Self-Balance	Display	LED (Green & Red)
Ion Emission	Steady-State DC Technology	Operating Environment	Temperature: 15 - 35 °C, nominal Humidity: 35 - 75%
Ion Balance	Less than ± 35 V Peak Offset Voltage	Material	Enclosure: ABS plastic Bracket: Polycarbonate
Output Control	Intrinsic Self-Balanced	Dimensions	64 H x 35 D x L (300, 400, 500, 600, 1200)
Emitter Point	Tungsten 99.99%	Warranty	1 year limited warranty
Alarm	Visual & Audio alarm operates for power failures	Certification	CE RoHS

SIZE & DIMENSIONS (mm)



FACILITY MONITORING SYSTEM OUTPUT SIGNALS

Status	Visual	Audio
Normal Operation	Green	Inactivate
HV Power Fail	Red	Continuous Sound
Balance Fail	Red	Beeping Sound

Condition	Pin 4/5	Pin 2/3	Pin 5
Normal	Open	Open	High
HV Power alarm	Open	Closed	High
Balance alarm	Closed	Open	High

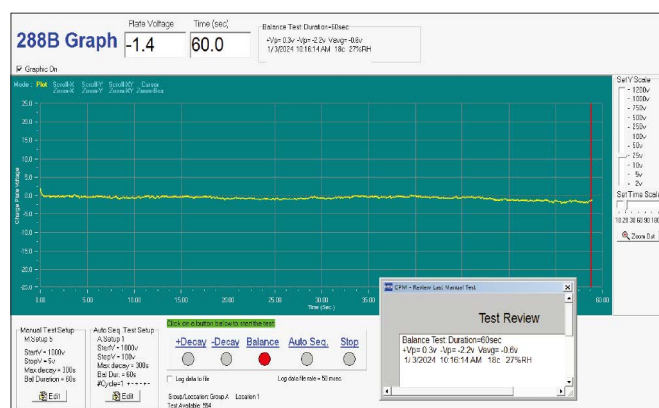
RELATED PRODUCT

Model 5720EP	Tungsten Emitter Point
Model 5170D	RJ-45 Terminal DC Adapter, 100 - 240 VAC 50/60 Hz
Model 7300-xxxx	xxxx mm Length of Model 7300



ION BALANCE TEST RESULTS AC Switching Voltage can cause of ESD Damage by Induction

- ANSI/ESD STM3.1 & S20.20 - Offset Voltage means for DC based ionizer
- Offset Voltage measurement should be change to Peak Voltage
- Test Equipment - Model 288B CPM by Monroe Electronics



No Swing Voltage from Steady-State DC Ionizer



Induction Field Swing Voltage from Pulsed AC Ionizer
Peak-to-Peak value: +305V to -393V