CORE INSIGHT
코어인사이트(주)

Self-Balanced Ionization System

Model 3810
Ionizing Blower

Alarm status

Features

CoreStat® Self-Balanced Technology
Steady-state DC Ion Emission
Low Balance
Facility Monitoring System(FMS) Interface
Alarm (HV Power Fail)
Small Size for In-Tool and Bench Top

Benefits

No Calibration Required
4-20 mA Current Loop and Relay Output Monitoring
Visual Alarm
Audio Alarm
Emitter Point Easy Clean and Replace
Connect to Process Equipment
Versatile Applications

Applications

Tribocharging is a typical ESD source and induced field from insulators must be controlled in EPA(ESD protected area). Process required insulators are commonly used in many places and should be neutralize by ionization systems.

CoreStat® self-balanced technology, Model 3810 has designed versatile applications for semiconductor backend, printed circuit board assembly and general electronics applications. Model 3810 ionizing blower doesn't required regular based calibration and intrinsically maintain low offset voltage within a spec.

Facility monitoring system interface will give real time ionizer status monitoring and visual (LED), audible (buzzer) alarm when HV power fail and out of balance.

Model 3810 CoreStat® Self Ionizing Blower

Specifications

Input Voltage	24 VDC, 10.6 W Max.
Ion Emission	Steady-State DC Technology
Balance	< ±5 V
Discharge	±1000 V to ±100V less than 1 sec at 30 cm
Air flow	138 CFM
Emitter Point	Tungsten 99.99%
Alarm Function	Visual Alarm (LED), Audible Alarm (Buzzer) HV Power Fail and our of Balance
Output Monitoring	FMS Monitoring Interface Materials
Material	Enclosure ABS Polycarbonate (Cool Gray) Filter Cover ABS (Black), Bracket (Aluminum Powder Coating)
Operating Environment	Temperature: 15 - 35℃, nominal Humidity: 35 - 75 % RH, non-condensing
Dimensions (W×H×D)	148 W x 185 H x 77 D mm without bracket 188 W x 205 H x 77 D mm with bracket
Weight	1 kg (with bracket)
Warranty	2 Year Limited

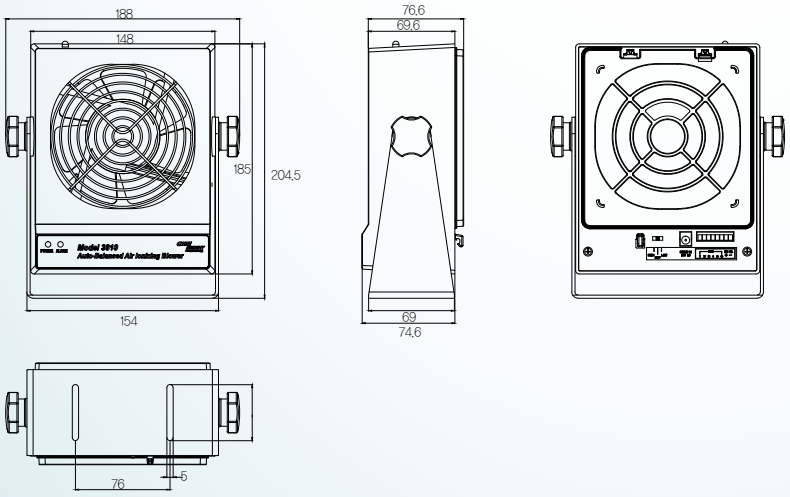
Facility Monitoring System Interface

Pin No.	Description
FMS 1	Alarm relay output
FMS 2	Relay common
FMS 3	Balance Alarm relay output
FMS 4	Current output for each operation
FMS 5	Current output reference ground
FMS 6	Balance Relay common

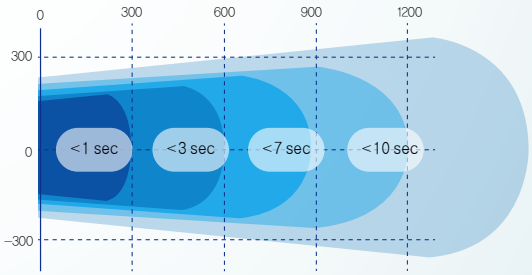
Facility Monitoring System Output Signals			
Condition	FMS 1~2	FMS 4~5	FMS 3~6
Normal	Open	4~5 mA	Open
Alarm	Closed	17~20 mA	Closed
No Power	Closed	Open	Closed

Mode	Visual	Audio
Normal Operation	GREEN	Inactivate
HV Power Fail	RED	Continuous Sound
Balance Fail	RED	Cutting Sound

Sizes & Dimensions(mm)



Model 3810 Discharge Time



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