

Auto-Balanced Ionization System

Model 3810 Ionizing Blower



Alarm status

Features

- CoreStat Auto-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
- 4-20mA 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 auto-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.

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Specifications

| | |
|-----------------------|--|
| Input Voltage | 24V DC, 13W (Maximum) |
| Ion Emission | Steady-State DC Technology |
| Balance | < ±5V |
| Discharge | ±1000V to ±100V less than 1 sec at 30cm |
| Air flow | 100 CFM |
| Emitter Point | Tungsten 99.99% |
| Alarm Function | Visual Alarm (LED), Audible Alarm (Buzzer) |
| 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°C, Humidity : 35~85% RH Relative Humidity: 35 ~ 75% RH |
| 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 | 1kg (with bracket) |
| Warranty | 2 Year Limited |

Facility Monitoring System Interface

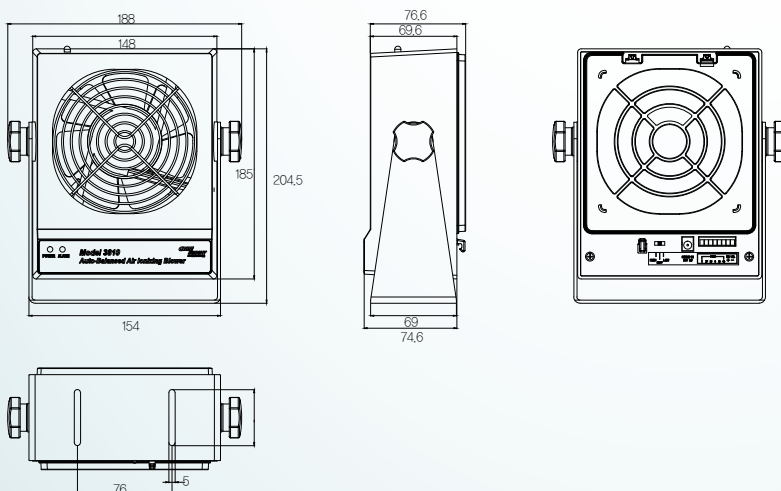


| Pin No. | Description |
|---------|-----------------------------------|
| FMS 1 | Alarm relay output |
| FMS 2 | Relay common |
| FMS 3 | Balance Alarm relay output |
| FMS 4 | Current output for each operation |
| FMS 5 | Current output reference ground |
| FMS 6 | Balance Relay common |

| Facility Monitoring System Output Signals | | | |
|---|-----------|-----------|---------|
| Condition | FMS 1 ~ 2 | FMS 4~5 | FMS 3~6 |
| Normal | Open | 4 ~ 5mA | Open |
| Alarm | Closed | 17 ~ 20mA | Closed |
| Power OFF | 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

