



Digital Room Ionization System

MODEL 5515 CEILING EMITTER MODEL 5582 CONTROLLER IONMANAGER SOFTWARE

The newest additions to our digital family of Ceiling Emitters and Controllers, the Model 5515 Ceiling Emitter and the Model 5582 Controller, are designed to integrate with IonManager software, the most comprehensive and robust ionizer management software available. This digital room ionization system allows the flexibility to remotely and individually control and address system operational settings including alarm sensitivity, ion output, ion pulse timing, and polling frequency. Easy to use tools with precision fine tuning allows your ionization system to achieve maximum performance, specially calculated for your specific application.

The integrated software control and monitoring capability of IonManager enables centralized control of individual Emitters and Controllers. Each individual Emitter may also be set with the Model 5572 remote control, or by using the Model 5571 handheld terminal connected to the Controller. Any status issues from an Emitter or Controller are reported back to IonManager, which can send messages following a customized set of rules.









Features and Benefits

- Fully digital technology
- Precisely control all ionization parameters with expansive data output capabilities
- Available with single crystal silicon emitter points¹
- Emitter point material is the cleanest, highest performing, and lowest maintenance available, essential for 65 nm and below wafer processing
- Advanced Feedback Technology²
- Continued stable high ion output is ensured, along with the most balanced ionization performance possible
- Flexible user configuration, with adjustments made via IR Remote, IonManager software, or Handheld Terminal
- Fast and easy setup
- Current and voltage-controlled performance
- Safe, reliable operation

¹ U.S. Patent No. 5,650,203
² U.S. Patent No. 4,809,127

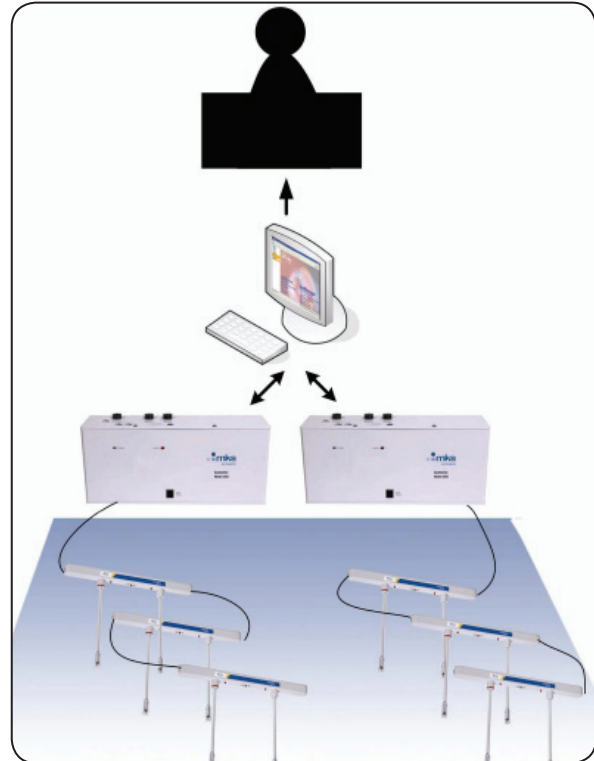


Specifications

| Digital Ceiling Emitter Model 5515 | |
|------------------------------------|--|
| Input voltage | 24 VAC, 50/60 Hz, 1W typical |
| Output voltage | 0-20 kVDC for each polarity; positive and negative output levels adjusted separately |
| Control signal | Ionization parameters are adjusted with the 5571 Handheld Terminal, 5572 IR Remote, or via IonManager software |
| Connectors | Telephone-type RJ-11 modular jack receptacle on each end of emitter |
| Regulation | Output and balance stability is achieved by independently regulating the ion emission current of each polarity at each ionizer |
| Timing | Precise timing (0-10 seconds at 0.1 seconds resolution) is generated by a local microcontroller; LEDs on each emitter indicate the polarity of the ion emission |
| Operating mode | Pulsed DC, steady-state DC, or standby |
| Emitter points | Single crystal silicon or tungsten alloy; all emitter points are field replaceable |
| Emitter rods | 2.5, 5, 10, 15, 24, 36, or 60 inches length (6.4, 12.7, 253.4, 38.1, 61.0, 91.4, or 152.4 cm length) |
| Alarm | Alarm operates when ionizer is no longer able to maintain preset ion output level; visual LED in the middle of the ionizer; optional audible alarm at controller |
| Ozone | <0.005 ppm (24-hour accumulation) |
| Operating environment | <i>Temperature:</i> 59–95°F (15–35°C), nominal <i>Humidity:</i> 20–60% RH, non-condensing |
| Dimensions | 1.2H x 1.4W x 17.5L inches (3.1H x 3.6W x 44.5L cm) |
| Weight | 16.4 oz (465 grams) |
| Warranty | Two year limited warranty |
| Certifications | SEMI F47     (all pending) |
| Digital Controller Model 5582 | |
| Input voltage | 100/115/250 VAC ±10%, 50/60 Hz voltage selectable and fuse protected |
| Output voltage | 24 VAC |
| Output signal | RS-485 to Emitters Ethernet or RS-485 to IonManager |
| FMS output | Relay or 4-20 mA output |
| Capacity | 80 Model 5515 Ceiling Emitters |
| Indicators | Green power LED, red alarm LED, audible alarm |
| Dimensions | 6.2H x 4.4W x 13.2L inches (15.8H x 11.1W x 33.5L cm) |
| Weight | 7 lb (3.18 kg) |
| Certifications | SEMI F47     (all pending) |

System Performance Security

The new Model 5515 Ceiling Emitter, Model 5582 Controller, and IonManager software provide consistent ionization protection throughout your facility. The advance notification system communicates system alarms and warnings immediately so corrective action can be taken. The alarm notifications are user-configurable and can be sent to multiple personnel via e-mail, SMS, or pager.



Emitters are connected to controllers, which communicate with IonManager. IonManager sends e-mail notifications to a facility monitoring system or agent.

Ordering Information

| | |
|-------------------------|---|
| 91-5515U or C-yy | Digital Ceiling Emitter (U = silicon points; C = titanium points; yy = rod length) |
| 91-5582 | Digital Controller, supports up to 80 ionizers |
| 91-5582-SW-Vx | IonManager software (x represents current version number) |
| 91-5572 | Infrared Remote Controller |
| 91-5571 | Handheld Terminal |

See IonManager data sheet for IonManager system specifications



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