

Digital Room Ionization System

**MODEL 5515 CEILING EMITTER
MODELS 5522/5582 CONTROLLERS
IONMANAGER PRO SOFTWARE**



The Model 5515 Ceiling Emitter with Controller Models 5522/5582 forms a state-of-the-art digital room ionization system that combines flexibility, scalability, and precise control. Users can start with the Model 5522 controller for systems with 20 or fewer ceiling emitters, then easily expand to full software monitoring by upgrading to the Model 5582 controller.

Digital technology allows each ceiling emitter's parameters—including ion output, ion pulse timing, and digital address—to be configured locally with the Model 5571 and Model 5572 Handheld Terminals or remotely through IonManager Pro. Fine-tuning each emitter ensures maximum performance in any airflow condition and application.

IonManager Pro software provides a visual tool for monitoring alarms, room layouts, and the status of emitters and controllers. Automated notifications, data logging, and multiple security levels ensure reliable operation and authorized access only.

FEATURES

- ✓ Fully digital technology
- ✓ Single-crystal Silicon or Titanium emitter points
- ✓ Advanced Feedback Technology
- ✓ Small and large capacity controllers

BENEFITS

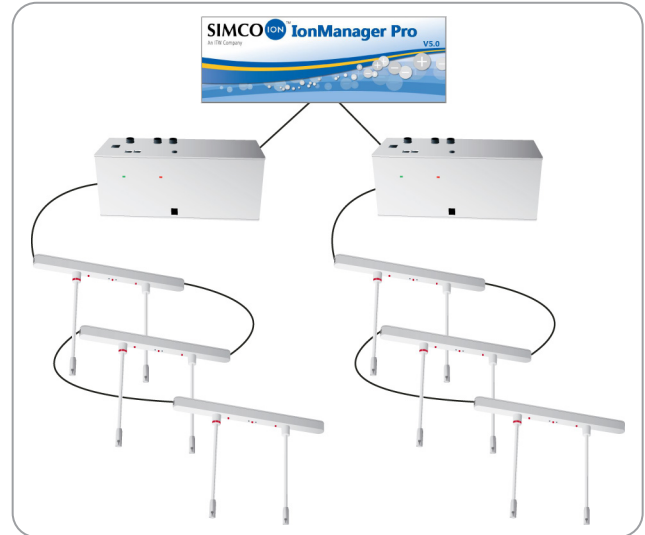
- ✓ Provides precision control of all ionization parameters with expansive data output capabilities
- ✓ Ensures ultra-clean performance with low maintenance; Single-crystal Silicon emitter points offer compatible material for leading-edge wafer processing applications
- ✓ Maintains balanced, high ion output over long periods for stable performance between emitter point cleanings
- ✓ Enables user to grow from a small system with FMS output only to a large system using IonManager Pro software as requirements change

invisible problems
visible results™
Tackling Static & Particulate Contamination

Model 5515	
Voltage	Input: 24 VAC, 50/60 Hz, 1W (typ) Output: 0-20 kVDC for each polarity; positive and negative output levels adjusted separately
Ion Emission	Pulsed DC, Steady-state DC, or Standby
Emitter	Single-crystal Silicon or Titanium, replaceable
Emitter Rod	2.5, 5, 7.5, 10, 15, 24, 36, 48, 60, 66 inch (6.35, 12.7, 19.1, 25.4, 38.1, 61.0, 91.4, 122, 152, 168 cm), custom lengths are available
Cleanroom Class	Single-crystal Silicon ISO 14644-1 Class 1 or Titanium ISO 14644-1 Class 3
Connector	Telephone-type RJ-11 modular jack receptacle on each end of emitter
Control Signal	Ionization parameters are adjusted with the 5571 Handheld Terminal, 5572 IR Remote, or via IonManager Pro software
Timing	Precise timing (0-10 sec @ 0.1 sec resolution) is generated by a local microcontroller; LEDs on each emitter indicate the polarity of the ion emission
Regulation	Output and balance stability is achieved by independently regulating the ion emission current of each polarity at each emitter
Alarm	Alarm operates when emitter is no longer able to maintain preset ion output level; visual LED in the middle of the emitter; optional audible alarm at controller
Ozone	<0.005 ppm
Operating Env	59-95°F (15-35°C) nominal; 30-60% RH, non-condensing
Dimension	1.2"H x 1.4"W x 17.5"L (3.05 x 3.56 x 44.5 cm)
Weight	1.03 lb (0.465 kg)
Warranty	10-year limited warranty
Certification	   
Model 5522 & 5582 Digital Controllers	
Voltage	Input: 100/115/220-240 VAC ±10%, 50/60 Hz voltage selectable and fuse protected Output: 24 VAC
Capacity	Model 5582: 80 Model 5515 Ceiling Emitters Model 5522: 20 Model 5515 Ceiling Emitters
LED Indicator	Green POWER; red ALARM, AUDIBLE ALARM
Output Signal	RS-485 to Emitters (5522 & 5582); Ethernet or RS-485 to IonManager Pro (5582 only)
FMS Output	Relay or 4-20 mA output (available on both Model 5522 and 5582 controllers; no software capability on the Model 5522 controller)
Dimension	Model 5582: 6.2"H x 4.4"W x 13.2"L (15.8 x 11.1 x 33.5 cm) Model 5522: 3.0"H x 2.8"W x 12.4"L (7.5 x 7.0 x 31.6 cm)
Weight	Model 5582: 7 lb (3.18 kg); Model 5522: 3.2 lb (1.4 kg)
Warranty	10-year limited warranty
Certification	    

System Performance Security

The Model 5515 Ceiling Emitter, Model 5582 Controller and IonManager Pro 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 email, SMS, or pager.



Emitters are connected to the Model 5582 Controllers, which communicate with IonManager Pro to send email notifications to a facility monitoring system or agent.

Ordering Information

91-5515C-xxR	Emitter w/Titanium emitter points (2.5, 5, 7.5, 10, 15, 24, 36, 48, 60, 66 inch rod lengths)
91-5515U-xxR	Emitter w/Silicon emitter points (2.5, 5, 7.5, 10, 15, 24, 36, 48, 60, 66 inch rod lengths)
91-5522-02	Digital Controller, supports up to 20 emitters*
91-5582-02	Digital Controller, supports up to 80 emitters*
91-5582-SW-Vx	IonManager Pro software (x represents current version number)
91-5572	Infrared Remote Controller for 5515 emitter
91-5571	Handheld Terminal

* IEC power cord require, contact Sales Service for detail.



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