

# Pulse-Stat AC™ L



Microcontroller provides self-monitoring & automatic system correction

Power & fault indication on bar

Balance calibration manually adjustable

Selectable AC ionization frequency

Easily replaceable emitters

Titanium emitters available

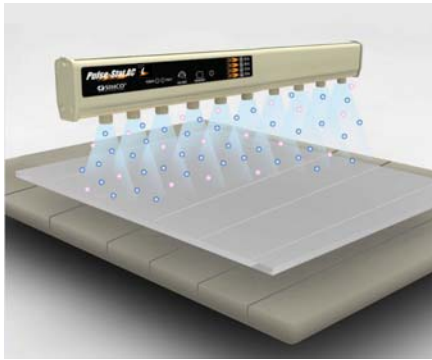
The fastest most flexible, efficient ionizing system available capable of eliminating electrostatic charges (ESD) and preventing electrostatic attraction (ESA) of particles on large highly charged surfaces.



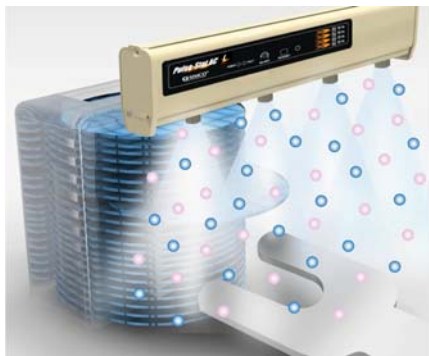
WORLDWIDE LEADERS IN STATIC CONTROL

 **SIMCO**<sup>®</sup>  
An Illinois Tool Works Company

## Applications:



Static Bar and Power Supply



Ionization of Wafer Transfer



Quick Disconnect Assembly

## Pulse-Stat AC L Bar

The Pulse-Stat AC L bar is designed to maintain critical operating parameters in the most challenging applications. Its efficiency is optimized through active self-monitoring, and automatic system correction. If a problem should occur, the bar has the capability to visually indicate a fault condition and provide an output that can be integrated into manufacturing system control hardware.

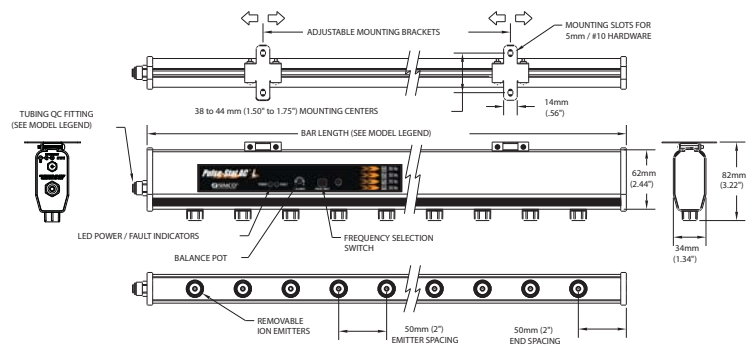
Air assist at each ion emitter ensures the most rapid static discharge possible while using a minimum of compressed air to achieve the rapid discharge time. The integrated microcontroller allows for adjustment of the AC ionization frequency to suit the static neutralizing application needs.

## Easy Maintenance Quick Disconnect

Quick disconnect emitter pins allow for easy replacement. Emitters are available with tungsten, titanium or silicon carbide ( Class I ) ion emitters.

## Dimension Drawing

### Pulse-Stat AC L Bar



## SPECIFICATIONS

### Pulse-Stat AC L Adapter

**Input:** Universal 100-240 VAC, 47-63 Hz line input through 3-pin IEC320 receptacle.

**Output:** 24  $\equiv$  (VDC), 40 W, 1.66 A

### Pulse-Stat AC L Bar

**Input Power:** 24  $\equiv$  (VDC), 0.50 A

**Power Connector:** Straight Miniature Power Jack 5.5 mm x 2.5 mm

**Indicators:** LED indicators for power and fault

**Air Inlet:** 6 mm Tube QC Fitting (550 mm to 1500 mm bars)  
8 mm Tube QC Fitting (1800 mm to 3000 mm bars)

**Input Pressure:** 200 kPa (30 psi) recommended nominal,  
700 kPa (100 psi) maximum, clean dry air

**Air Consumption:** 100 lpm per meter bar length (at 100 kPa)  
150 lpm per meter bar length (at 200 kPa)  
200 lpm per meter bar length (at 300 kPa)  
1.1 scfm per foot bar length (at 15 psi)  
1.6 scfm per foot bar length (at 30 psi)  
2.2 scfm per foot bar length (at 45 psi)

**Noise Level:** 62 dB at 100 kPa (15 psi)  
67 dB at 200 kPa (30 psi)  
72 dB at 300 kPa (45 psi)  
Measured 1 m (39") from bar

**Ion Balance Control:** User adjusted via pot control.

**Ion Output Control:** Fixed output, internally calibrated.

**Ion Frequency:** 20 Hz to 35 Hz, adjustable in 4 increments.

**Bar Enclosure:** Impact resistant ABS, Stainless Steel

**Mounting Brackets:** Stainless steel, with adjustable mounting centers.

**Emitter Spacing:** Standard emitter spacing is 50 mm (2")

### Operating

**Temperature:** (0° - 40°C) 32°F - 104°F

**Operating Humidity:** 85% RH non-condensing

**Storage Temp:** (-17.78°C - 50°C) 0°F - 122°

**Storage Humidity:** (%RH) max. 95% non-condensing

## Pulse-Stat AC L Decay Times

Pulse time is recorded in seconds @ center of bar.  
Bar Length (1500) mm/29 Pins @ (74.2 C 33.2% RH).

