

# Equilibrion® Ionizer Controller

Keep your Ionization in Full Control at All Times  
and Lower the Cost of your Ionizer Maintenance

Ionization is only effective if properly used and when the equipment is maintained at all times. An ionizer blower without maintenance becomes a useless fan in just a few months. Even worse, an unbalanced ionizer can be *charging* your sensitive components instead of neutralizing them.

Enter Equilibrion®, a breakthrough ionizer controller and monitor from Credence Technologies. Incorporating a patent-pending design that is completely immune to nearby static charges, Equilibrion brings the balance of an ionizer to zero and keeps it at zero, even as ionizer tips wear out or build up dirt -- dramatically increasing the time between required ionizer maintenance and thus lowering the cost of ionizer ownership.

The unique design of Equilibrion® completely neutralizes any influence of static charges on ionizer balance. With Equilibrion®, there is no worry of throwing off ionizer balance by tens or even hundreds of volts when a charged object approaches a workbench or tool.

Equilibrion® provides monitoring of decay -- the most fundamental property of an ionized environment. Charge decay at places where sensitive components are handled can exceed acceptable levels due to dirty ionizer points, air flow blockage, or a mispositioned ionizer. With Equilibrion®, automatic continuous decay monitoring provides an alarm when decay becomes unacceptable, improving ESD safety in your environment.



## Applications

- Disk Drive Manufacturing
- GMR Head Handling
- GMR Head Testers
- Semiconductor Tools
- Mini-Environments
- Photolithography Equipment
- Wafer Handlers
- Any Sensitive Equipment Locations
- Industrial Robotics
- Tool Clusters
- Wherever ESD is an Issue

## Features

- Monitors DC, AC and pulsed ionizers
- Controls with virtually all DC ionizers equipped with control input
- Automatically adjusts to ionizer parameters for control
- Broad range of balance auto adjustment for DC ionizer blowers
- Completely rejects influence of static voltage on ionizer balance
- Keeps ionizer balance under +/-1V
- Indication of balance and decay
- Miniature size

## Key Advantages

### Brings to Zero, Keeps at Zero

Equilibrion brings ionizer balance of DC ionizer blowers to zero from a wide imbalance range and continuously adjusts to keep it well within +/-1V at all times, even with worn ionizer points, extending the time period between scheduled periodic maintenance.

### Immune to Static Voltage

Equilibrion is equipped with patent-pending technology that completely suppresses the influence of static voltage on ionizer balance. Balance will not "swing" due to nearby charged objects or even from operator's touching its integrated sensing plate.

### Reports Balance and Decay

Equilibrion continuously provides visual indication of balance and decay of an ionizer, assuring you of ESD safety. Even for those ionizers that do not have control input, Equilibrion serves as a miniature CPM always in place to report ionizer performance.

### Miniature Size

With its small footprint, Equilibrion fits anywhere without interfering with normal activity of operators or equipment.

**Equilibrion®**  
Ionizer Controllers  
Models CTC037  
CTC038  
CTC039