

# Electro-static Precipitators

## Application Guide

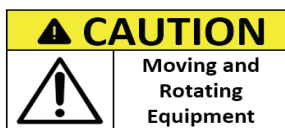


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### Risks

Today, the importance of clean air and a sustainable environment is a priority for everyone. While we continue to search for cleaner resources for power & manufacturing, electro-static precipitators are critical to many industries where particulates are produced. ESP's reduce air pollutants created as a result of production & operations.

Maintenance and operations of ESP's in any industry pose various risks associated with high voltage power such as:



**Equipment in Motion**



**Confined Space**



**Fall from Heights**



**Electrical Hazards**

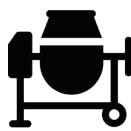
These critical areas of application put personnel and equipment at risk and even pose life threatening situations.

### Maintaining Safety At Your Facility

Regardless of the industry, ESP's need to be properly maintained and the safety of personnel and the equipment is critical during maintenance operations.



**Power Generating Stations**



**Cement Plants**



**Pulp & Paper Mills**



**Steel Mills**

During scheduled outages, interlock solutions should be thoroughly inspected to maintain maximum safety and ensure all interlocks and keys are in good working order.

### Pre-outage ESP Safety Checklist

Lock operation functionality	Key condition	Lock condition	Protective cover present / Operational	Interlock safety system operation
MCC				
TR Set				
Transfer Panel				
Access Door Top				
Access Door Side				
Access Hopper				
Level Detector				

Through the years of providing safety solutions to these industries, we have developed a comprehensive safety checklist to review the integrity of your interlock system.

We can also visit your site, audit your solution, and talk you through the required updates.

## Benefits of Trapped Key Interlocking

Why use a trapped key interlock safety solution?

To **PROTECT** personnel from hazards ensuring predetermined sequences of operations are followed.

To **PREVENT** loss of operations and setback due to equipment damaged by mis-followed operations.

To **PROVIDE** risk control and peace of mind; eliminating human error and ensuring everyone has the right to be safe at work!

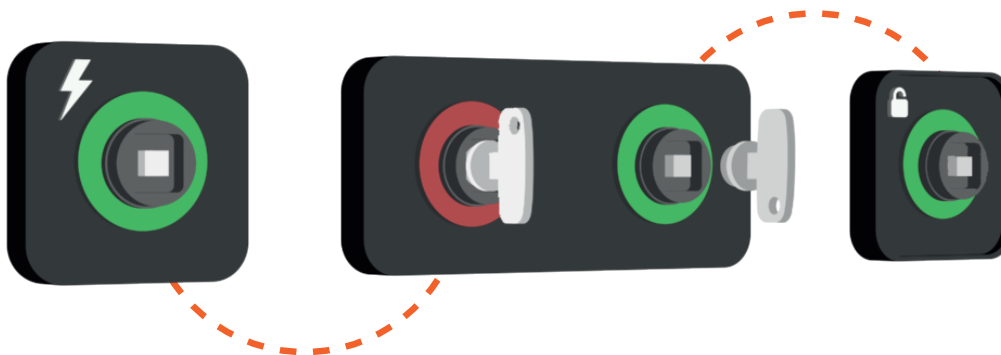
A trapped key interlock solution is;

**INTEGRATABLE** onto new equipment or retrofit into existing procedures and equipment.

**CUSTOMIZABLE** to your specific safety requirements through the sequenced design and or with custom product.

**RELIABLE** and robust safety solution that can withstand harsh environments, maintaining the integrity of the safety solution.

## How A Trapped Key Interlock Solution Operates



Power is isolated. The key can be removed and taken to the key exchange.

The initiating key from step 1 is inserted into the key exchange, re-releasing the access key(s) and trapping the initiating key.

Access key(s) can be taken to the appropriate access door(s) and personnel can safely perform maintenance and operations.

Power can only be restored when maintenance is complete, trapped key solution is followed in reverse, returning all access keys, and releasing initiating key to restore power.

## No Compromise on Safety

Our team will partner with you to design your safety interlock scheme, build a bill of materials, and coordinate with multiple equipment OEMs to ensure your safety solution is implemented in the field with peace of mind; mitigating risk and eliminating human error.



**CONTACT US TODAY**

**to discuss your next outage and ESP safety review.**



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