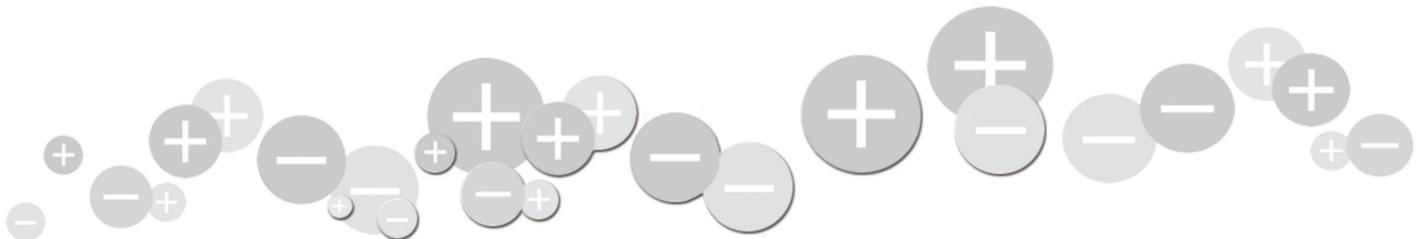


IQ Power HL

STATIC NEUTRALIZING SYSTEM
FOR HAZARDOUS LOCATIONS

Industrial Static Control

WWW.SIMCO-ION.COM



IQ Power HL

Our Most Intelligent Static Neutralizing System for Hazardous Locations

The IQ Power HL is our most innovative static control system designed to optimize static neutralization in hazardous locations where safety is a concern.

This multi-patented scaleable system is easily upgradeable and is UL/ETL Certified to be safe in Class 1, Div. 1, Group D classified areas.*



Control Station

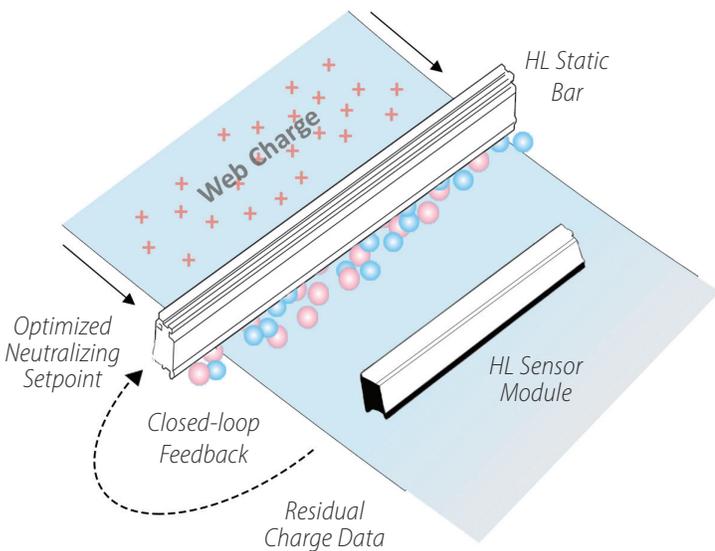
The Control Station is the central monitoring device of the IQ Power HL static neutralizing system. It has a large 10" full-color touch screen that displays complete status information for up to 10 neutralizing bars each with up to 8 sensors.

The Control Station provides operating details including user-defined name, status, ionization output, current, charge readings and user-controlled voltage alarms. Data logging capabilities are offered with selectable time intervals in addition to event logging. Full PLC integration is also available with several fieldbus protocols to choose from.



The Control Station provides four Output Modes of operation to manage ionization, providing the best results based on your application.

- **Fixed Mode** for system optimization based on standard charge conditions.
- **Auto-Tune Mode** a patented feature for optimization based on varied charge conditions.
- **Manual Mode** for user adjusted output settings.
- **Closed-Loop Feedback (CLFB) Mode** allows Sensors to dynamically adjust the output of the neutralizer. The patented CLFB mode offers the most precise static neutralization.



*OSHA stipulates that all electrical equipment (used in the workplace) be tested and approved by a Nationally Recognized Testing Laboratory (NRTL) accredited by OSHA. UL® and ETL certifications are approved NRTLs in the USA. ATEX certified equipment is not approved by OSHA for use in the USA.

Static Neutralizing Bar

The IQ Power HL Static Neutralizing Bar is offered in over 85 different lengths and two varieties to suit your application based on the web speeds or operating distance. Individual emitters pins are current limited to eliminate the risk of hazardous electrical shock and explosion in specific classified areas. The IQ Power HL bar is suitable for use in cleanroom rating class 1000 (ISO 6) or above.

- **Speed Static Bars** are engineered to neutralize static charges on webs traveling up to 3,000 fpm and can be mounted approximately 4" from the material to be neutralized.
- **Hybrid Static Bars** are designed for installations where the web path is somewhat variable. Typically mounted up to 18" away.



Power Supply

The IQ Power HL System offers two power supply choices. Both feature the patented auto-calibration and dual-axis feedback control to process system intelligence, providing unmatched output power and adjustment to the neutralizing bar.



- The **HL Power Supply** is approved for mounting outside the hazardous area. Indicators on the HL Power Supply display system status, power, service status, and fault conditions.
- The **HLC Power Supply** is an aluminum enclosure approved for mounting inside classified hazardous locations. Used with our **Control Station**, which is mounted outside the hazardous area, displays all critical indicators.

Sensor & Sensor Interface

IQ Power Sensors are intrinsically safe active modules that are easy to install without the use of conduit. The Sensor incorporates digital technology, offering superior signal transmission and is impervious to noise.

Sensors can be placed in closed-loop, allowing the IQ Power HL Static Neutralizing bars to adjust in real-time to ensure the material has the lowest possible residual charge. Additionally, the sensors can be installed anywhere along the web path for monitoring only.

The Sensors allow for numerous sensing ranges with flexible mounting distances. Operating parameters for each sensor can be configured independently.



The **IQ Power Sensor Interface** acts as a gateway between the Sensors and the Control Station. It is mounted outside of the hazardous location and connects up to 8 Sensors.

The Control Station displays individual Sensor readings. Fault and warning status indicators are shown per Sensor.

Summary	Neutralizer	Sensor
DEVICE_1 OK Page 2/4		
Web Voltage Sensor 1		+ 0.3 kV
Web Voltage Sensor 2		+ 0.8 kV
Web Voltage Sensor 3		- 0.2 kV
Web Voltage Sensor 4		- 0.5 kV
Web Voltage Sensor 5		- 0.7 kV
Web Voltage Sensor 6		+ 0.3 kV
Web Voltage Sensor 7		+ 0.9 kV
Web Voltage Sensor 8		+ 0.5 kV



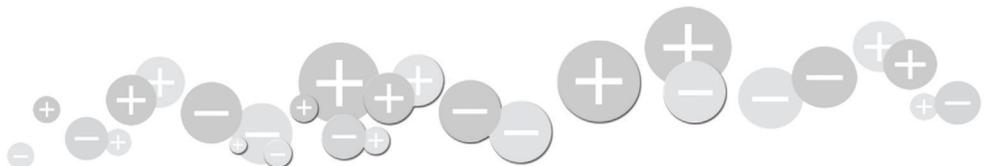
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