SIMCO ION™
An ITW Company

Industrial Static Control

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IQ Power Control Station

The IQ Power Control Station is the core of the IQ Power System. With full-color touch screen and user-friendly interface, the Control Station offers 24/7 static management and monitoring capabilities.

The Control Station provides reliable information including device name, status, ion output, and web charge using the IQ Sensor Bar.

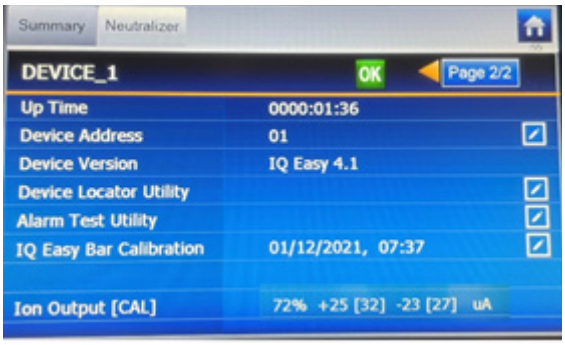
- Complete remote visibility through PLC integration with multiple Common Industrial Protocols available including Ethernet IP, Profibus DP-V1, ProfiNet, Modbus-TCP, Modbus-RTU
- Data Log functionality captures and records real-time data available locally via USB data storage or Ethernet port
- High speed, real-time static measurement and alarms
- Automated ion output based on live data using Closed-Loop Feedback mode when paired with IQ Sensor Bar
- Auto-tune Operation Mode utilizes internal positive and negative feedback currents to adjust output
- Touchscreen with 1 volt resolution
- Customizable maintenance and threshold alarm monitoring up to 60 kV
- Field supported firmware updates without internet connection
- Up to 10 addresses with multiple devices per address

Continuous Monitoring

Measure and record real time charge readings, provide warnings/ alarms The IQ Power Control Station allows users to set multiple alarms; clean bar alarm, warning and fault indicators. Alarm management is handled using color-coded device tiles on HMI screen for instant device status at a glance. Identify a potential problem before failure using Warning and Fault Relay Outputs which can be used with a light tree, horn, or PLC. Use of the output state with a PLC allows customization for executing process changes when conditions are above or below user defined thresholds.

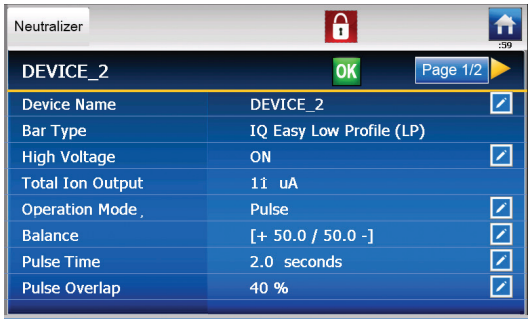
Preventative Maintenance

Static problems often occur between "intermittent static checks" resulting from changes to the system, operator adjustments, mechanical failures, or material variations. Sustain efficiency by monitoring ion output to indicate when maintenance is required. The IQ Power Control Station records previous calibration date and Ion Output current. Compare baseline calibration to actual Ion Output to take the guesswork out of maintenance.



New IQ Easy Sensor Bar

Measure real world physical conditions up to 60 kV in most applications with IQ Easy Sensor Bar. Various operating modes are available including Sensor Priority which gives precedence to Sensor readings with more frequent polling.



Dynamic Operation

The IQ Power Control Station supports endless flexibility with multiple Operation Modes for various applications.

Fixed: Balanced standard operation (default factory setting)

Manual: Includes voltage regulation and current monitoring found in the standard mode, plus manual control of the ion output ratio

Auto-tune: Standard operation plus automatic compensation that takes into account web speed, bar type, mounting distance and measured ion current to optimize static neutralization

Closed-loop FeedBack (CLFB): Steers ionizer output using kV per inch charge data received from IQ Sensor Bar. This function optimizes neutralization performance. This is particularly useful for critical applications and stubborn charges.

Balance: Allows manual control of ion balance. Balance mode features two levels of adjustment; Coarse and Fine, giving precision control.

Pulse Mode: Available with the IQ Easy LP Bar and provides static neutralization at moderate distance in stationary and slow-moving environments

Industry 4.0

The IQ Power Control Station can be connected to an existing industrial network. Optional fieldbus module enables it to function as an integral element of plant operation by sending critical data to any remote location.

Downloading the Data Log is fast and simple via Ethernet or USB connection. The IQ Power Control Station's data log provides a historical record of device status, On/Off, Fault, Warning, Operating Mode, Output %, Ion Balance, + and - Ion Current, etc. This extensive diagnostic data is a vital tool for troubleshooting, root cause analysis, and continuous improvement. Customizable sampling rate scaled to meet the needs of any static control application.

Simple device installation with IQ Power Wireless Link. Eliminate costly and time-consuming wiring. Using Industrial Bluetooth, the IQ Power Wireless Link provides a straightforward and effective way to maintain constant contact without the inefficiency and expense of long cable runs.

DESIGNED & ASSEMBLED IN THE USA

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