



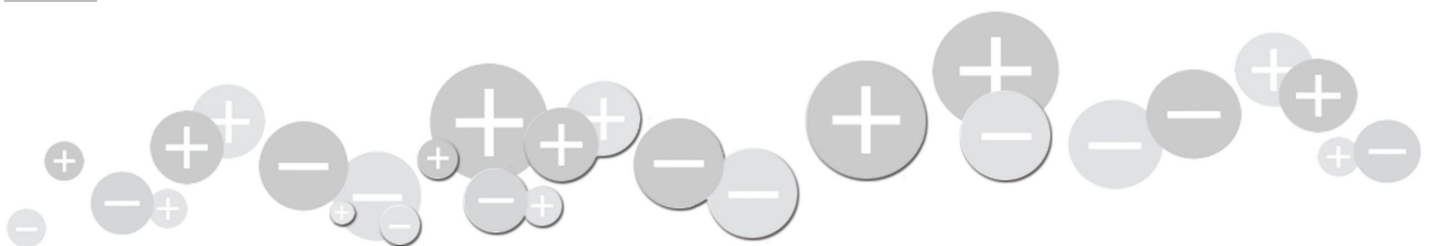
IQ Easy Modular Sensor

CALIBRATED, COMPACT, AND SCALABLE STATIC CHARGE MONITORING

The newest member of the IQ family is also the smallest and most capable. The Modular Sensor is an advanced non-contact electrostatic field meter designed to accurately measure and communicate static charge levels (up to 60 kV) while eliminating the time requirement and inaccuracy associated with handheld measurements.

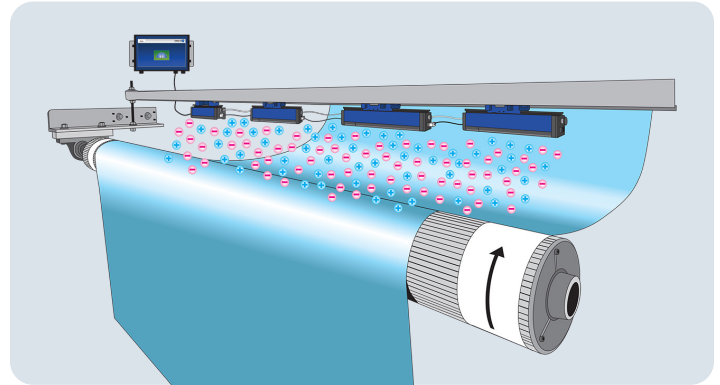
The Control Station offers high speed digital communication, user-configurable alarms, and optional PLC integration so that areas where static charge is a problem can be constantly monitored, and ionizer performance documented and improved via Closed-loop Feedback (CLFB).

- Connect up to 40 modular sensors to one control station
- Certificate of Calibration available
- Air purge connections for demanding environments
- Five communication protocols for PLC connection
- Configurable for static charging, neutralizing, or CLFB applications

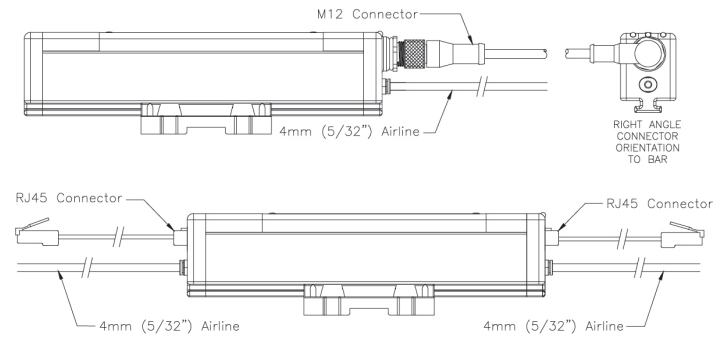


Power Supply	IQ Power Control Station	
Input Voltage	24 VDC, 0.10A	
Input Connection	5-pin M12 (A-coded) female receptacle; RJ-45 female receptacle	
Operating Environment	122°F (50°C) max; 70% RH, no dewing permissible (max)	
Operating Distance	2" (50 mm) 20 kV max 3" (75 mm) 25 kV max 4" (100 mm) 30 kV max (factory default setting) 6" (150 mm) 40 kV max 8" (200 mm) 50 kV max 10" (250 mm) 60 kV max	
Input Purge Gas	1-2.5 psi (7-17 kPa) nominal operating pressure 5 psi (35 kPa) max operating pressure 0.14 scfm (4 NL/min) per sensor @ 1 psi (5 kPa) 0.22 scfm (6 NL/min) per sensor @ 2.5 psi (20 kPa) Clean, dry, oil-free compressed air or nitrogen	
Gas Input Connection	4 mm OD Tubing, Quick Disconnect	
Enclosure	Glass fiber reinforced plastic	
Weight	0.9 lb/ft (1.3 kg/m)	
Dimensions	RJ-45: 8.02"L x 1.19"W x 2.08"H M12: 8.09"L x 1.19"W x 2.08"H	includes mounting bracket & connector
Compliance	RoHS	
Approval	ETL, US, Canada	

There are two versions of the Modular Sensor: an M12 connection or two RJ-45-style connectors. While both offer air purge and the ability to connect up to four sensors per one Control Station address, the dual input RJ-45 sensor is designed to work in a daisy-chained (pass-through) fashion, while the M12 sensor is designed to work as a standalone sensor, with an available right angle cable connection.



The Modular Sensor incorporates digital technology, offering a superior signal transmission that is impervious to noise. The operational status of the Modular Sensor is also communicated via one of three LEDs.



M12 and RJ-45 Connection Comparison

Mounting the Modular Sensor downstream of the IQ Static Bar, offers the option of closed-loop feedback adjustments. Closed-loop Feedback (CLFB) mode allows the Sensor to directly control output of the neutralizer. CLFB mode offers the most precise static neutralization.

Ordering Information

4017338	IQ Easy Modular Sensor with RJ-45 Connector
4017339	IQ Easy Modular Sensor with M12 Connector
6050022	Modular Sensor Certificate of Calibration
Cabling	Interconnect Cables, sold separately (contact Simco-Ion for options)

Communication

The IQ Power Control Station is the central communication hub of the IQ Power system.

IQ Easy sensors connect directly into the IQ Power Control Station through a RJ-45 or M12 connector.

Data can be output to a USB drive, PC, or PLC with an optional Anybus module.

Fault and warning alarms can be set at a user-specified voltage threshold via the Control Station, which shows data for each sensor and reports the sensor's overall average and individual sensor readings. Sensor attributes such as status, run time, and address are also viewable.



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