

## Proven technology completely redesigned for significant operational impact

The SQ-300i™ from GE Energy is a redesign of the original SQ-300™ that has a reputation for optimizing electrostatic precipitator (ESP) performance and collection efficiency for decades in many industries around the world. Serving as the “heartbeat” of the precipitator control system, the SQ-300i™ controls the delivery of electrical power to discharge electrodes by controlling power input to a transformer rectifier. Added features—including an optional touch screen user interface and flexible connectivity—will help you improve the performance of your precipitator, to achieve higher collection efficiency and overall energy output.

With its improved speed and process capability, the SQ-300i™ can replace old or unreliable equipment and maintain compliance with today’s governmental emissions reporting requirements. In addition, this versatile AVC is an ideal compliment to an ESP upgrade to generate information that is critical to analyzing and improving precipitator performance.

### Not your typical AVC

- Ethernet connectivity enables faster communication resulting in better spark recognition and control
- Onboard five-trace oscilloscope allows for triggering of events such as sparking, so the AVC cabinet can stay closed to ensure the safety of personnel
- Increased system flexibility
- Optional operator interface has a color touchscreen that provides quick system access for easy-to-use operation and at-a-glance system monitoring
- Cost-effective, flexible design can be configured to be as simple or elaborate as necessary (see reverse side for a sample system architecture)
- Onboard data storage allows storage of up to a week’s worth of data that can be imported into a Windows®-based application
- No EEPROMs required, means that enhancements, troubleshooting, and upgrades can be performed online



### Solid industry reputation

GE Energy has built a strong reputation for producing the SQ line of automatic voltage controls—using an advanced spark response algorithm for higher performance, improved emissions collection, and increased efficiency.

Although the SQ-300i™ delivers the latest available technology and features, it maintains the same standard quality and benefits as its predecessors, the SQ-200™ and SQ-300™ including:

- Improved connectivity that interfaces with customer data acquisition systems, including Windows® XP operating system software
- Peer-to-peer communication that is quicker than conventional control networking
- Increased average power delivered to the field through the patented automated tuning of setback and spark rate—resulting in higher collection efficiency
- Obtain power quality analysis of current vectors, Waveform and phase shift analysis, and vector impedance
- Onboard-generated VI curves
- Ability to monitor key operations of the T/R and precipitator field during operation



## Improved collection efficiency

By providing a patented quick spark response algorithm, the SQ-300i™ produces more properly-applied dust cleaning power.

## Energy savings

By monitoring process parameters and outlet particulate emissions, the SQ-300i™ delivers increased power consumption while managing outlet emissions.

## Reliability

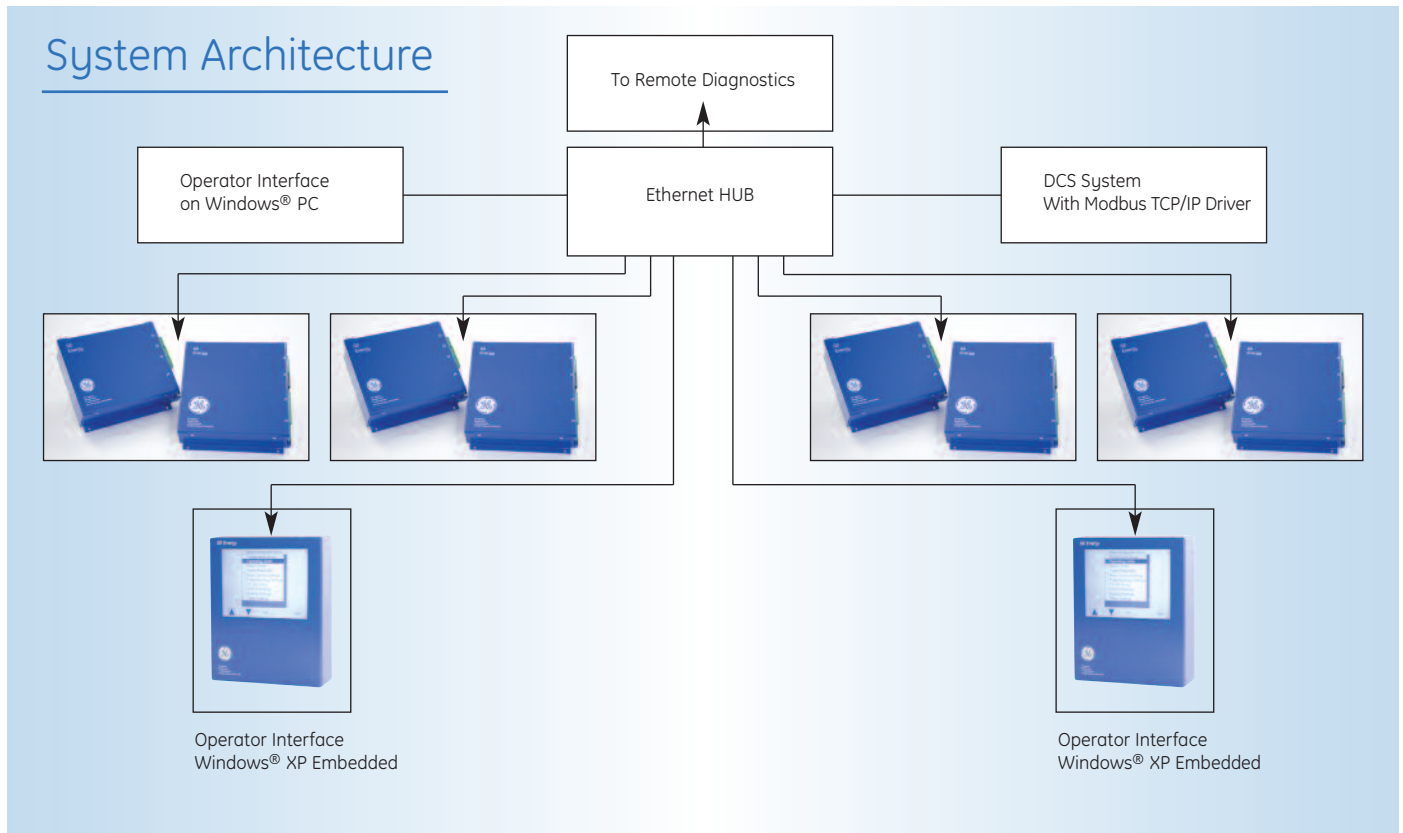
Designed and produced by the same team that introduced the SQ-300™, this new product is designed to deliver exceptional service for years to come.

## Optional equipment

- Optional Operator Interface means quick system access for easy-to-use operation and system monitoring
- Signal input and output boards to handle control of tumbling hammers, acoustic horns, or import data for on-board local data acquisition



## System Architecture



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