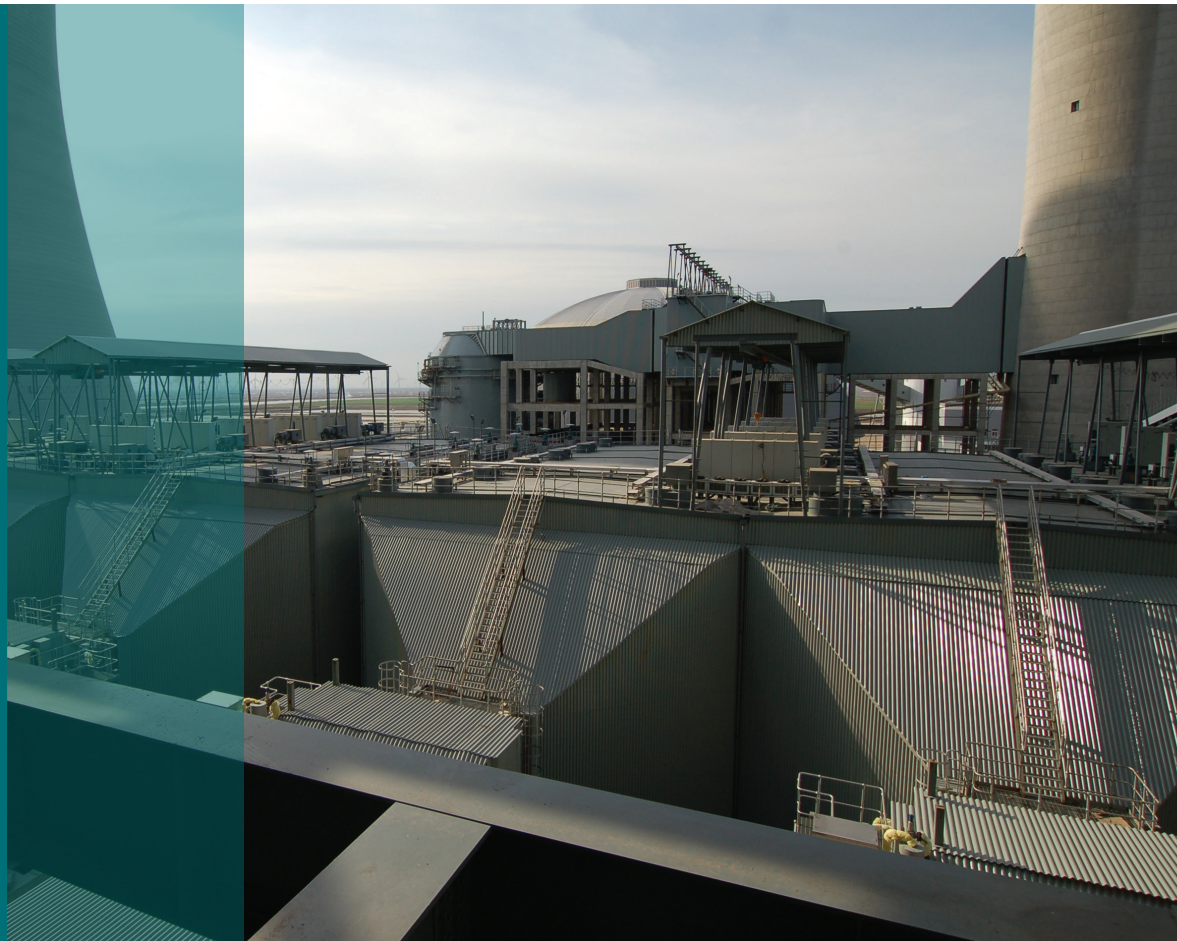


# Making ESP processes work

**Integrated  
Precipitator  
Management  
Solutions**





**Our Integrated Precipitator  
Management Solutions include:**

- >> Switch Mode Power Supply (SMPS)**
- >> Transformer Rectifier (TR) Sets**
- >> Voltage controls**
- >> Rapper controls**
- >> Supervisory control system**
- >> Electrostatic Precipitator (ESP) services**

# Particulate Matter Collection

We make ESP processes work. For us that means improving our customer processes in terms of reliability, efficiency, and accuracy. Combining outstanding equipment and extensive process knowledge, we develop and manufacture innovative solutions that focus on the needs of our customers and support them through the whole life cycle of a product. Our integrated precipitator management solutions provide you with the technology to better control your ESP.

**Compliance 24 / 7 / 365**



ModuPower™ MPX improves the particulate matter (PM) collection efficiency of any electrostatic precipitator by increasing the average power into the process regardless of application.

MPX will:

- Reduce baseline PM emissions
- Achieve regulatory compliance for emission standards
- Mitigate additional inlet dust loading from DSI and ACI
- PM and acid mist collection in wet applications (Wet ESP)

The ModuPower™ MPX is comprised of multiple, independently operating modules with their outputs connected in parallel.

# ModuPower™ MPX

- >> **Simplified maintenance and repair**
- >> **Remote mounting with HV cable**
- >> **Fixed switching frequency 35kHz**

Photo is courtesy of Associated Electric Cooperative. ©2018 All rights reserved.



**Supercharge your ESP**



- >> **Proven ABB/Westinghouse design**
- >> **Custom design center for high quality retrofits**
- >> **100% copper-wound transformers**
- >> **Extensive testing of each unit**
- >> **Replacement CLR's**
- >> **Durable steel tanks providing strength rated for 15 psi**
- >> **Heavy-duty R/C compensated diode stacks**

## TR Sets

TR Sets offer uncompromising quality, ruggedness and reliability. We manufacture dependable, low maintenance TR Sets in standard or custom sizes.

Each TR Set is customizable to your specifications. We design high quality retrofits for any existing TR Set. Our exact replacements will save you time and money through minimizing installation requirements by matching the output busing location, bushing height and low voltage junction box.

**Traditional, tried and tested**



The AVC XM voltage controller combines optimum ESP control with advanced diagnostic features. Its high speed Digital Signal Processor (DSP) allows the most accurate and stable ESP control possible, while advanced control algorithms provide superior spark detection and management.

Our voltage controller also has high resolution graphics display showing primary and secondary voltage and current waveforms. AVC XM's inputs are protected by a combination of special filtering, ESD protection, voltage limiting amplifiers and optical isolation.

# AVC XM Voltage Controls

- >> **High-speed, high-resolution sampling for superior stability and control**
- >> **Advanced control modes allow more power to the ESP more frequently**
- >> **Triple level circuit protection for longer life**
- >> **FORRY™ Net interface for remote monitoring, control, logging and configuration**



**Advanced control and diagnostics**



# ERC Rapper Controls

- >> **Automatic program control based on process changes**
- >> **FORRY™ Net interface enables control and monitoring anywhere in the plant**
- >> **Anti-coincidence groups eliminate concurrent rapping in a passage, preventing re-entrainment problems**
- >> **Power reduced rapping can be implemented based on unit load or manually initiated operations**

ERC 1001 rapper control has proven itself year after year with trouble-free performance in hundreds of plants worldwide. Our modular design can accommodate any combination of rapper types. Large or small systems can be customized and expanded to meet your specific needs. ERC programs can be automatically selected based on boiler load, time of day, DCS parameters or external inputs.

**Flexible, modular, customizable design**



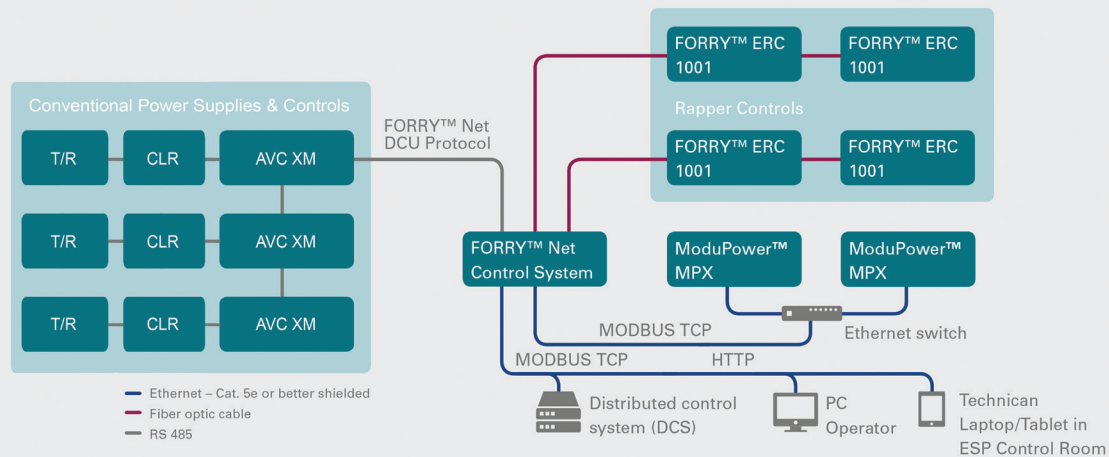
The FORRY™ Net precipitator supervisory system is designed to provide simple, one click operation for the entire ESP control system. FORRY™ Net is a web-server HMI that operates on a web browser (Chrome, IE, or Firefox) – requiring no proprietary software, no internet connection, no site licenses, and especially no Microsoft® Windows upgrade requirements.

Simply open the web browser, type the IP address and the interface opens to showcase:

- Single Screen View for all ESP and Control Information
- Integration of MPX, AVC XM, ERC Rapper Control
- Optional Data Logging Package
- Optional Compliance Reports

# FORRY™ Net

- >> **No specialized software required**
- >> **No license fee**
- >> **Simple and quick upgrade from DCU system**
- >> **Runs on modern web browsers**
- >> **Integrated rapper and power supply data for each bus section with historian**



**Integration into one screen,  
without fees, without software**



Schenck Process is a global market leader of solutions in measuring and process technologies in industrial weighing, feeding, conveying, screening, automation, and air filtration applications.

# Integrate your ESP



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