

THYRO® SCR POWER CONTROLLERS

EFFICIENT. SCALABLE. HIGHLY PRECISE.

Advanced Energy's Thyro-family of SCR power controllers bring more than 50 years of proven precision and reliability to high-current applications.



Advanced Energy®



FEATURES & BENEFITS

- Improved heater and component life
- Reduced peak power consumption
- Compact, integrated designs with fuses and DIN rail mounting
- Flexible configuration with customizable alarms, limits, and operating modes including: TAKT, VAR, QTM, VT, VSC, MoSi, Switch, SSSD
- Fast, variable solid state power control
- Extensive automation support: Profibus, PROFINET, EtherNet/IP, Modbus TCP, EtherCAT, Anybus

APPLICATIONS

- **Semiconductor & Solar:** crystal pulling, vapor deposition
- **Metals & Heat Treatment:** heat treating, vacuum furnaces, sintering
- **Glass & Crystal:** melting, boosting, bending
- **Oil, Gas, Chemicals:** pipe heating, bath heating
- **Coating & Drying:** industrial drying, coating systems



MORE THAN

300,000 GLOBAL INSTALLATIONS

PRODUCT COMPARISONS



THYRO-S

DIGITAL THYRISTOR SWITCH

APPLICATION

Basic Heating and Mechanical Contactor replacement.

KEY FEATURES

- Load Current range 16 to 350 A
- Load current & power measurement
- Analog & optional fieldbus communication
- Integrated Semiconductor Fuse
- 100 kA SCCR rating



THYRO-A

DIGITAL SCR

APPLICATION

General Heating (Furnaces/Ovens, Carbon Fibres)

KEY FEATURES

- Load Current range 8 to 1500 A
- Load current & power measurement
- 100 kA SCCR rating
- Analog & optional fieldbus communication
- Optional dynamic mains load optimization



THYRO-A+

SUPERIOR SCR

APPLICATION

Semiconductor and Advanced Materials

KEY FEATURES

- Load Current range 16 to 650 A
- Low Total Harmonic Distortion operation modes
- Optional Graphic Display
- Analog & optional fieldbus communication
- Optional dynamic mains load optimization



THYRO-XD

ULTRA HIGH ACCURACY & REPEATABLE SCR

APPLICATION

Semiconductor

KEY FEATURES

- Load Current up to 30 A
- Ultra-high load resistance, load current and load power measurement up to 0.1%
- Integrated automatic adjusted measurement ranges
- Optional EtherCat communication incl. FoE capability
- Integrated Semiconductor Fuse



THYRO-PX

FLAGSHIP POWER CONTROLLER

APPLICATION

High Power and High Demanding Applications (Glass, Chemical, Petrochemical)

KEY FEATURES

- Load Current up to 16 to 5000 A
- Supports AC & DC loads with air & water cooling
- Multizone capability
- Dynamic mains load optimization
- Voltage sequencing control