



TPS
Thyristor Power Controller
8-1500A, 220-1000V (4-1000KW)



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Fully digital Thyristor Power Controller. The TPS has a heavy duty one, two or three phase power unit for controlling the voltage applied to loads such as a variety of heating elements. The TPS allows continuous automatic temperature control while eliminating contactor switching and over/under heating. Standard features are phase control, zero crossing, PID input, local potentiometer control, and optional RS-485 communication.



Applications

- Oil and Gas
- Plastic
- Glass
- Paint
- Paper
- Heat Treatment
- Metallurgy
- Semiconductors
- HVAC
- Heaters
- Electrolysis
- Multi-zone heating (heater/phase)
- Voltage controlled devices
- Dimmers
- Transformers for low impedance loads
- Variety of resistive and inductive loads

Advantages at a glance

- Fully digital
- Phase Control and Zero Crossing
- Current: 75-1500A
(consult us for higher rating)
- Voltage: 230-1000V 50/60Hz
- Cooling Method: Forced air
- Ambient. Temp: 0 - 50°C
- Continuous Duty
- One, Two or Three controlled phases
- Three C.T.'s
- Input 0-10VDC, 4-20mA or 0-20mA
- RS-485 communication
- Load shedding – synchronization
- LCD display (2 line 16 characters)
- LEDs:
 - ON
 - Start
 - Stop
 - Alarm
 - Trip
 - Sync

Connection types

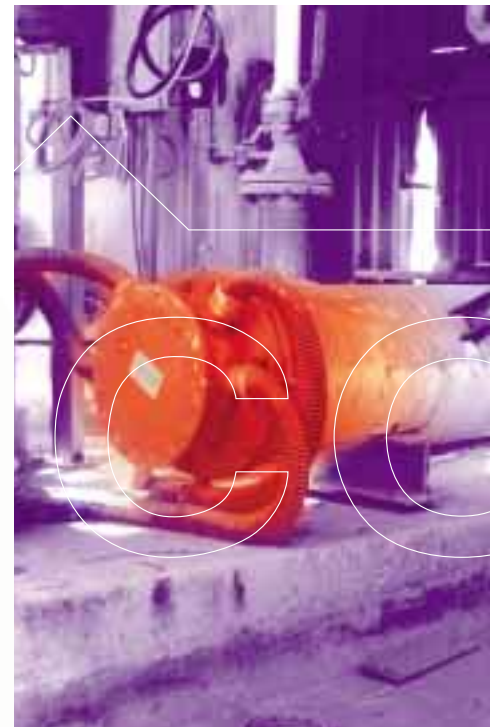
- Wye with or without neutral
- Delta
- Inside delta
- Parallel branch connection

Protection functions

- Under & Over current
- Under & Over voltage
- Under power
- Unbalance level 1 and 2
- Phase loss
- Ground fault
- Shorted SCR
- Wrong connection type
- External fault
- Heatsink over temperature Trip & Alarm
- Internal failure
- Communication port failure

Control

- Digital Control
- Firing methods:
 - Zero Crossing and Phase Control
- On-Off duty cycle
- Floating reference control inputs
- Optional external potentiometer control
- Control inputs starting signal
- Optional synchronization mode
(load shedding for several TPS units)
- Output Relays - Run, Alarm, Trip



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