

TPS



SCR Power Controller
industrial heating control for
resistive and inductive loads
Ratings: 8-1500A, 220 - 1000V

ON

accepted worldwide
www.solconusa.com





TPS

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A fully digital SCR Power Controller for three phase applications. Ideal for controlling the voltage applied to heating element loads (resistive or inductive). 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 communications.

Advanced Features

- Fully digital
- Phase Control and Zero Crossing
- Current Range: 75-1500A (consult factory for higher ratings)
- Voltage Range: 230-1000V 50/60Hz
- Cooling Method: Forced air
- Ambient Operating Temp: 0 - 50°C
- Continuous Duty Rated
- Input 0-10VDC, 4-20mA or 0-20mA
- RS-485 communications
- Load shedding – synchronization
- LCD display (2 line 16 characters)
- LEDs: ON, Start, Stop, Alarm, Trip, Sync

Protection Features

- 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

Connection Types

- Wye (with or without neutral)
- Delta
- Inside delta
- Parallel

Control

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



Industry/Applications

- Oil and Gas
- Glass
- Paper
- Metalurgy
- Heaters
- Multi-zone heating (heater/phase)
- Variety of resistive and inductive loads
- Semiconductor Equipment
- Plastic
- Paint
- Heat Treatment
- HVAC
- Electrolysis

How to Order:

Example:

TPS 31 - 480 - 115 - 115 - 0 - S

Current

Voltage

Control Voltage

Control Input Voltage

Options

3M = Modbus RS-485 Communications

5* = Analog output card

D* = Remote mount display (with 1.5m cable)

Sync = Synchronizing of up to 9 units

P = Potentiometer Control

* Available on 145A and above



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