

KAT

Heater Controller



With the introduction of the I series and P series, Kat presents its family of Thyristor Heater Controllers. These Heater Controllers are compact, rugged and most economical solution to completely meet the industry requirements.

Quality, repeatability and high availability form the basis for documented outstanding product quality in the application process. Thyristor Heater Controllers from Kat switch, control or regulate electrical energy at the start with simple applications for optimised analog Heater Controllers as cost effective solutions right upto the complex applications.

Kat family Heater Controllers are available in 1 Phase, 2 Phase, 3 Phase input options for either Phase Angle control or Integral Cycle control.

Kat family Heater Controllers can be used anywhere which involves melting, heating, drying or forming which must be done precisely and reliably.

Applications :

- ◆ Oven equipment (industrial, diffusion and drying ovens)
- ◆ Glass processing (float glass, feeder, finishing)
- ◆ Plant equipment (extruders, plastic presses)
- ◆ Chemical industry
(pipe trace heating, preheat equipment)
- ◆ Automotive industry (paint drying equipment, forging)
- ◆ Printing machines (IR dryers)
- ◆ Packaging industry (shrink tunnels)
- ◆ Steel industry (precoated sheets)





Standard Features :

- Fully Solid State Power Control
- Voltage & Current Feedback to Control the temperature Accurately
- Fault status indications by LED's
- Built in Test Points for Maintenance
- Control through external process. Variable Signal like 4 to 20 mA / 0 -10VDC
- Fault Trip (Over Load) Potential Free Contact
- dv / dt Protection for Thyristor
- ' Heatsink Temperature High ' Signal

Optional Features :

- Fast Acting Semiconductor Fuses for Thyristor Protection
- Panel enclosure with necessary Protection, Switchgear, Indications, Controls & PID. Internally wired to the components & terminal blocks with proper identifications
- Earth Fault Protection Kit
- Fuse Fail Trip
- Multi Heater Controller Systems & settings through Modbus
- AC Line Chokes
- Fault Annunciation Kit
- Remote Control Desk and Pendants





Katcon make Heater Controller Modules

1) KATCON PC 1 series Model : 1P-12, 1P-30 (Phase Angle Controlled)	1Ph / 2Ph, 12Amp 30 Amp
2) KATCON IC 1 Series Model : I-15, I-40, I-80, I-100 (Integral Cycle Controlled)	1 Phase / 2 Phase 15 Amp, 40 Amp, 80Amp, 100Amp, 130Amp
3) KATCON PC 3 Series Model : 3P-15, 3P-40, 3P-80, 3P-100, 3P-130 (Phase Angle Controlled)	3 Phase 15Amp, 40 Amp, 80 Amp, 100 Amp, 130Amp
4) KATCON IC 3 Series Model : IC 3-25, IC 3-50, IC 3-100, IC 3-130 (Integral Cycle Controlled)	3 Phase 25Amp, 50Amp, 100Amp, 130Amp
5) KATCON HP Series (Phase Angle Controlled)	3 Phase, onwards 130A to 800Amps
6) KATCON HI Series (Integral Cycle)	3 Phase, onwards 130A to 800Amps

Note : Higher ratings can be manufactured on request





Technical specifications

Input A.C. Supply	1 Ph / 2 Ph / 3 Ph 230/415 V.A.C. \pm 10% 50/60 Hz \pm 2Hz
Output Voltage	0-98% of Input Voltage
Feedback	Built in Voltage & current Feedback
Control Input signal	0 to 10V Through 5K or 10K Potentiometer or 4-20 mA from PID /Temp controller
Regulation	2.5 %
Protection	dv/dt protecting by RC snubber Current Limit & over current Tripping
Adjustments	Current limit, Over Current Trip, Set Output Volts, Max Power, Stability, Voltage Ramp up, Voltage Ramp down
LED Indication	\pm 15V Healthy, Current Limit, Over Current Trip, Controller enabled
Loading Condition	125% for 10 Sec., 110% for 2 Hours & 100% continues. Other loading conditions can be given on request
Environmental conditions	
1. Ambient Temperature	1. 45 ° C max
2. Humidity	2. 95% max (non condensing)
3. Altitude	3. 1000 Mtrs max. Above MSL
Constructions	Open execution module suitable for mounting inside the Panel

In keeping with our constant endeavour to meet market needs, we reserve the right to alter or change the specifications mentioned without prior notice.



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