

# HEATER SYSTEM BURNOUT DETECTOR

ICD offers heater system monitoring and burnout detection. This product is designed to monitor status of the heater system with 3 phase star or delta connected loads. This instrument measure and monitors voltage, current, power and energy through external CT's and voltage detection; it can operate with 3 CT's or 2 CT's with true RMS measurement, CT ratio is settable in the meter itself. Under current setting will be given to study heater status and it will announce the heater burnout detection. This unit also shows the thyristor short circuit failure or open circuit failure.

This instrument displays voltage, current, power and energy by digital measurement and finds the heater burnout status and provide alarm through an external relay output.

## Main Functions

- Heater burnout alarm
- Heater layer short circuit alarm on crossing limit
- Power device short circuit detect
- Power device open circuit detect
- Display of all electrical quantities
- Heater useful run hour

## Features

- Ensure best quality product
- Avoid scrap and raw material wastage
- Automatic human intervention
- Monitoring unbalance heating
- Monitoring a group of heater together in an enclosure
- Contribute preventive maintenance



Technical Specification	
Type	Heater burn out detector for 3 Phase individual loads
Voltage input	220/ 415V AC, 3 phase 50Hz
Current input	5amps
Display parameters	Voltage at each phase, Total power, PF, Current, Energy
Run hour	Available

Applicable Control Method	
ON/OFF control	Temperature control with relay output
SCR control	Temperature control with voltage output
Cyclic control and Phase control	Temperature control with Current input
Measurement Method	
ON/OFF control	Potential free NO contact
SCR control	Voltage and current monitor continuous
Cyclic & phase Angle control	4-20mA DC for 100% output
Heater burnout detection	This works on above 1.5% load
Output	One SPDT relay or transistor output 12V DC
Display	2x16 character alphanumeric LCD display
Status indications	Run healthy(Green), Alarm(orange)
Main functions	Heater burnout alarm, Heater layer short circuit alarm on crossing limit, Power device short circuit detect, Power device open circuit detect, Display of all electrical quantities, Heater useful run hour
Auxiliary supply	230V AC +/- 10%
Enclosure	96 x 96 x 80 mm (LxBxH)
Mounting type	Panel mounting
Instrument cutout	90 x 90 mm

## Applications

- Multi zone heating system
- Heater plates/ mould consists of various section on top and bottom
- Heat treatment furnace monitoring several heating elements individually stresses relieving furnaces.
- Extruders, pressure injection moulding machine



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