

# MULTI CHANNEL HEATER FAILURE DETECTOR

ICD offers heater system monitoring and burnout detection. ICD offers an electronic unit monitoring a group of heaters minimum 4 to 12 in a single enclosure, it accepts current input for each of the heater element and continuously monitored. The current flow with respect to enable signal on giving closure of external contact it is expected the current to flow all heaters and absence of current treated as heater open or failure and it immediately alerts by relay and visual indication

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

## 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

Instrument Name	ICD make heater status monitor
Model number	HSM1000
No.of CT inputs	Min 4 Max 12 CT inputs for 12 heater elements
No.of enables inputs	2 enable inputs (each input will activate 6 element status monitor)
Mode of checking	By means of current sensing
Rating of the current input	5A maximum
CT ratio settings	Provided in program mode
Current limit set for status monitor	Provided in program mode
Function of the instrument	When enable is on it will always compare with set current value, once current goes below the set value common relay will ON. A control input is given from external circuit and when the contact is closed it will sense the current

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Status indication	<ol style="list-style-type: none"> <li>1. Heater element healthy(Green)/Fault (Red) for individual Element</li> <li>2. Enable input status indications</li> <li>3. Relay ON/OFF indication</li> <li>4. Common heater elements status (good/Fail)</li> </ol>
Relay output	Two common relay output will be provided when heater is failed and current value below Set value it will be closed
Display	2x 16 alphanumeric LCD display
Run mode display Parameters	Current for all 12 CT inputs with manual page change and auto Scroll mode
Program mode parameters	<ol style="list-style-type: none"> <li>1. CT ratio for each CT input</li> <li>2. Current set for each element</li> <li>3. Relay on delay in seconds</li> </ol>
Auxiliary supply	230V AC, 50Hz
Box dimension	144 x 144 x 160mm
Mounting type	Panel mounting
Instrument cutout	138 x 138 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

## Option

- Voice announcement for failed heater.



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