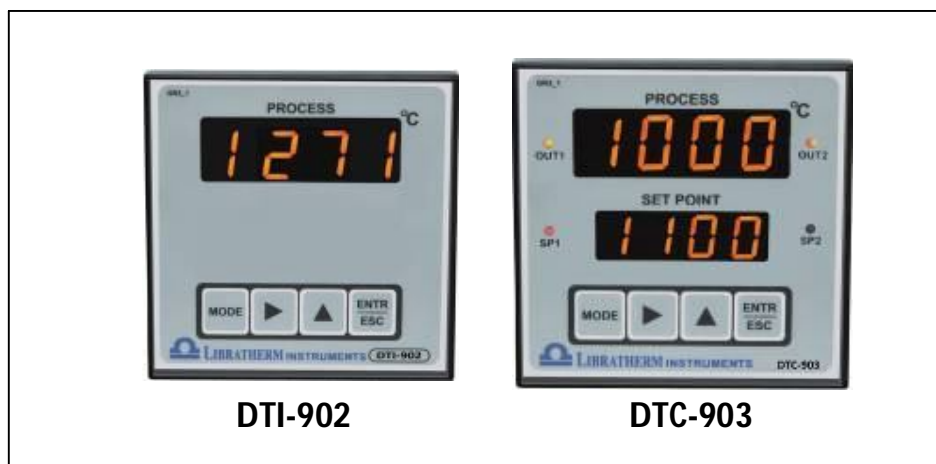


**Temperature Indicator Controller (Series 900)**  
**(Microcontroller based Low in Cost - Small in Depth)**  
 (Product Code 6.1 To 6.2)



### Model Wise Description:

Sr. No	Model	Product Description	Size (mm.)
6.1	DTI-902	Temperature Indicator	96 x 96 x 75 mm
6.2	DTC-903	One or Two set point On-Off Controller	96 x 96 x 75 mm

### Description:

Libratherm offers high quality and low cost **microcontroller** based Temperature Indicators and on-off controller's series 900. It accepts input from J, K type thermocouple or RTD (Pt-100). User can select one of the 3 different types of input using front panel keyboard. This is the added advantage over the fixed type of input. Being microcontroller based 1 °C or 0.1 °C indicating accuracy is achieved by software linearization. Two independent set points are programmable over the full range of the selected input. Each set point can also be configured for High Alarm (Internal relay energizes when actual temperature value exceeds the set point), Low Alarm (Internal relay energizes when actual temperature value is below the set point) and OFF state. Outputs are optically isolated in the form of DC pulse, AC SSR (Triac) or electromechanical relays. SMPS power supply is utilized to operate this indicator controller in the wide range of AC supply of 90 to 250VAC.

## Features:

- ❖ Latest and high speed microcontroller based design
- ❖ Highly accurate and sturdy in operation.
- ❖ Elegant looks, Very easy to operate.
- ❖ Light weight and low depth of just 75 mm.

## Applications:

- ◆ Heater bank selection
- ◆ Star delta changeover
- ◆ Furnace and Oven control

## Technical Specifications:

<b>Input</b>	Thermocouple type J, K, or RTD(Pt-100) 2 or 3-wire input (User selectable)
<b>Range</b>	For K type : 0 to 1372°C For J type : 0 to 760 °C For Pt-100 : 0 to 400 °C or 0.0 to 100.0°C or -50.0 to +50.0°C
<b>Resolution</b>	0.1/1 °C Subject to the specified input and range
<b>Accuracy</b>	Better than $\pm 0.2\%$ of the specified range
<b>Display</b>	4 digit 0.5" Red 7-segment LED display for process value 4 digit 0.5" Red 7-segment LED display for set value (*)
<b>CJC</b>	Built-in automatic from 0 - 50 °C
<b>Open sensor indication</b>	Fault message is displayed and outputs are turned off for fail safe operation.
<b>Control Action(*)</b>	ON / OFF with programmable Hysterisis.
<b>No. Of Set points (*)</b>	Two and configurable for High, Low and Off mode.
<b>Control outputs (*)</b>	2 DC pulses 0 to 10VDC and 2 Relay contacts (5A @ 230VAC) or 2 DC pulses 0 to 10VDC and 2 ACSSR. (Outputs are optically isolated).
<b>Output indication(*)</b>	Front panel LED indication for Outputs and Selected set point.
<b>Key board settings</b>	Front panel membrane key pad for parameter settings.
<b>Supply</b>	Universal supply of 90 to 250 VAC (5VA max.), 50/60Hz or 24VDC @ 500mA (optional – please contact us).
<b>Size / Enclosure / Weight</b>	96 x 96 x 75 mm / ABS / 250 gms / (DTI-902 and DTC-903)
<b>(*)</b>	Applicable only for model DTC-903.

### Ordering Information for Model DTI-901, DTI-902 and DTC-903:

MODEL	A- INPUT AND RANGE	B- OUTPUT-1	C- OUTPUT-2
DTI-902	A1- K T/C – 0 to 1372°C J T/C – 0 to 760°C Pt-100 – 0 to 400°C	B1- (DC Pulse and Relay) B2- (DC Pulse and Triac)	C1- (DC Pulse and Relay) C2- (DC Pulse and Triac)
	A2- K T/C – 0 to 1372°C J T/C – 0 to 760°C Pt-100 – 0.0 to 100.0°C	00 -None	00- None
DTC-903	A3- K T/C – 0 to 1372°C J T/C – 0 to 760°C Pt-100 – (-50.0) to (+50.0) °C	(NA – for DTI-902)	(NA - for DTI-902)

### Example:

MODEL	A- INPUT AND RANGE	B- OUTPUT-1	C- OUTPUT-2
DTI-902	A3	00	00
DTC-903	A1	B1	C1

Example	Ordering Code	Description
1	DTI-902-A3-00-00	This is Temperature Indicator in 96 x 96 size with user selectable input for K, J and Pt-100. Pt-100 in the range of -50.0 to +50.0°C and working on 90-250VAC supply.
2	DTC-903-A1-B1-C1	This is Temperature Indicator Controller in 96 x 96 size with user selectable input for K, J and Pt-100. Pt-100 in the range of 0 to 400°C. Two outputs in the form of DC pulse and Relays and working on 90-250VAC supply.

REMARK :