

# DIGITAL TEMP. CONTROLLERS



"TCD" is a Digital Temperature Controller which controls the Process Temperature by Switching ON/OFF the heaters connected to it. The temp. of the required portion is sensed by the sensor (TC or RTD) and communicates to TCD, which in turn gives the required O/P to control the process temperature to the set limit. The analog signal from thermocouple or RTD sensor is amplified using a low Drift amplifier and is Compared with the Set Process Temperature by means of a Comparator. The Comparator O/P thus provides the required control signal so as to operate the relay which are in turn connected to the heaters.

TCD IS AVAILABLE IN OPTIONS OF EITHER :

PROP CONTROL or ON-OFF CONTROL – POT SET or THUMBWHEEL SET –

SIZE : 96X96X110 or 72X72X110 or 48X48X90

SENSORS : THERMOCOUPLE [J or K] or RTD [PT100] or 4-20mA

## TECHNICAL SPECIFICATIONS

Supply Voltage	230VAC, 50Hz ± 10%	Temp Setting	By Pot Knob / Push Wheel	Control Accuracy	± 0.5°C
Power	@5.6VA	Control Action	Proportionating ±3°C, 12sec. ON/OFF 2°C-6°C	Resolution	1°C or 0.1°C
Range	-50 to 1200°C[max]			Cold Junction	Automatic built-in
Inputs	J or K or RTD or 4-20mA	Dimensions(mm) ( H x W x D )	96x96x110 - TCD96 72x72x110 -TCD72	Panelcutout(Mm)	92x92or68x68or 45x45

Manufactured by :  

**Cogent Controls**

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