

## Temperature controllers----- PID / Auto tune



The **TCN series** controllers from Artech incorporate the latest in control Technology, backed by years of experience and good service so as to provide the user with a high performance product which is reliable, accurate and user friendly.

- Universal input (RTD: PT-100 and most thermocouples)
- Easy to use
- Intelligent autotune algorithm

### Technical Specifications

Input Type	Thermocouple: J, K, R, S, T, E, N. RTD : PT-100.
Measurement Accuracy	0.3%FS $\pm 1^{\circ}\text{C}$ .
Resolution	1 $^{\circ}\text{C}$ for thermocouple 0.1 $^{\circ}\text{C}$ RTD : -150 $^{\circ}\text{C}$ to 200 $^{\circ}\text{C}$ 1 $^{\circ}\text{C}$ RTD : -150 $^{\circ}\text{C}$ to 450 $^{\circ}\text{C}$
Control Mode	ON/OFF control or PID control (with either parameter setting or Auto Tune).
PID Parameter Range	P:1-1000% I: 0-1000secs D:0-1000secs Cycle time : 0.5 -30.0secs
Control Logic	Heating or Cooling (or PID)
Output Relay	230V AC 5A or 30V 5A DC, Normally Open.
Alarm Relay (TCNA-96) only	230V AC 5A High or deviation Alarm.
Power Supply	230V AC 50Hz. +10% , -15%.
Power Consumption	< 5W.
Ambient Temperature	-10 ~ +60 $^{\circ}\text{C}$ , Humidity : 0 ~ 90 RH%.
Dimensions	96 x96x 70 mm