

PID Temperature Controller

TCS



SALIENT FEATURES

- ◆ Auto-tuning
- ◆ 100-240 VAC
- ◆ PV, SV display
- ◆ Relay & SSR Output
- ◆ TC/ RTD Input (Selectable)

Model Number Legend

TCS - □ - □□

1 2 3 4

1. Series

TCS

2. Input Type

U: RTD Pt100, J/K

3. Output Type

RS: Relay & SSR Output

4. Power Supply

230AC: 230V AC

#. Accessories included

Panel Mounting Kit : 1 Set

Example:

TCS-U-RS230V AC

TCS Series - Input Type, Relay & SSR Output Type, 230V AC Power Supply

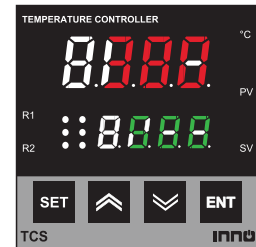
NOTE: Contact us for models not shown in catalogue.

- Sensing
- Digital Panel Meters
- Temperature Controllers
- Timers & Counters
- Level Controllers
- Convertors & Amplifiers
- Weighing
- Automation
- Components

Product Highlights

◆ Dual Display

The TC series temperature controller has separate displays for Process and Set Values. The PV display is in Red LED & SV display is in Green LED

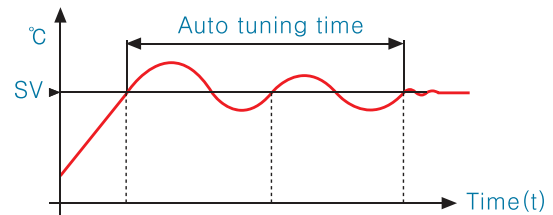


◆ SSR/ Relay Outputs

Selection of either Voltage driver for SSR output or 5A Relay output.

◆ Auto- tuning PID Controller

Manual and Auto- tuning PID control options are available. To enable Auto-tuning function press the UP arrow key after setting SV for 6 seconds. The AT indication LED glows to show AT progress. Once the light goes off, auto-tuning is complete.



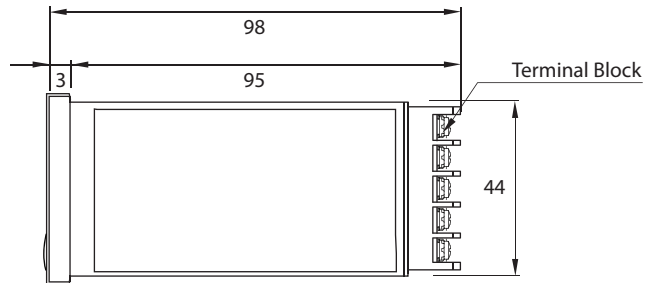
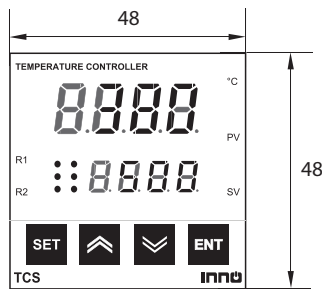
Ratings and Specifications

Input Type		Universal	
Models		TCS-U-RS230VAC	
Power Supply		100 ~ 240 VAC	
Power Consumption		50mA at 220 VAC	
Sensor Input		Thermocouple: K, J, RTD: Pt100	
Control Output	Type	Relay + SSR Output	
	Specification	Relay	2 C/O Contact, 230V AC, 5A (Resistive Load)
		SSR	12V DC
Control Method		ON/ OFF control or PID control with auto-tuning	
PV Display		4 digit, 7 Segment RED LED; Height: 9mm	
SV Display		4 digit, 7 Segment GREEN LED; Height: 7mm	
Resolution		Thermocouple: 1° C; RTD: 0.1° C	
Sampling Time		min. 0.5ms	
Dielectric Strength		At power terminals 200 VAC, 50Hz, 1 min	
Ambient Temperature		Operation: 0° ~ 50°C; Storage: -10° ~ 60°C (non- freezing; non- condensing)	
Ambient Humidity		Operation: 45 ~ 85% RH; Storage: 25 ~ 85% RH (non- condensing)	
Protection Class		IP20, Front panel IP65	
Weight		Approx. 149grams	
Material		Front Panel: PU Cladding Housing: ABS or Equiv.	

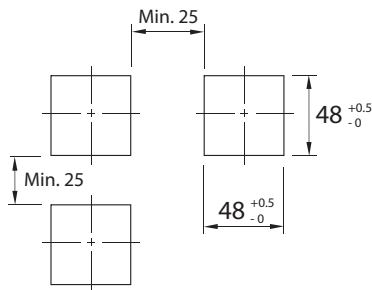
Note: The IP65 protection rating is valid only if the meter is fixed on the panel with the requisite rubber gasket

Dimension Drawing

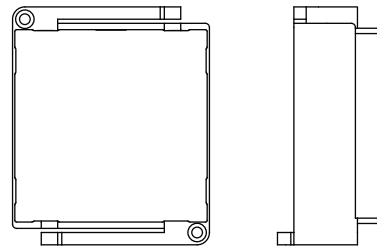
TCS



① Panel Cut-out

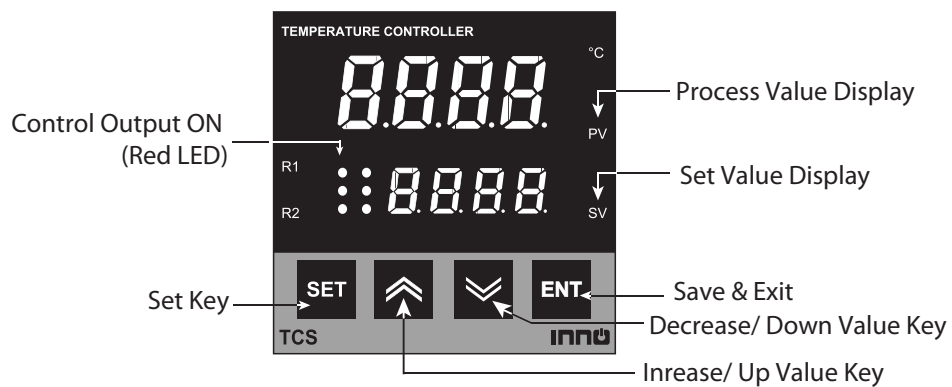


① Panel Adapter



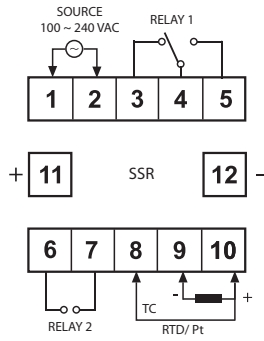
All dimensions are in mm

Component Names and Function



Connections

◆ TCS-U-RS230AC



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 specifications are subject to change without notice

Cat. No. TCS-117

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