

PID Temperature Controller

TCF

C F



SALIENT FEATURES

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

Model Number Legend

 $\frac{\mathsf{TCF}}{1} \cdot \frac{\square}{2} \cdot \frac{\square}{3} \frac{\square}{4}$

1. Series

TCF

2. Input Type

P: RTD Pt100 TC: J/K

3. Output Type

RS: Relay & SSR Output

4. Power Supply

230AC: 230V AC

#. Accessories included

Panel Mounting Kit: 1 Set

Example:

TCF-P-RS230V AC

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

NOTE: Contact us for models not shown in catalogue.

www.inno.sg/tcf



Product Highlights

TCF

Dual Display

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

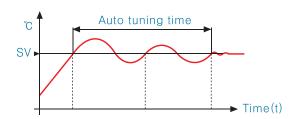
♦ SSR/ Relay Outputs

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

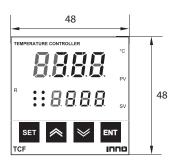
Input Type			Thermocouple	RTD
Models			TCF-TC-RS230VAC	TCF-P-RS230AC
Power Supply			100 ~ 240 VAC	
Power Consumption			50mA at 220 VAC	
Sensor Input			Thermocouple: K, J	RTD: Pt100
Control Output	Туре		Relay + SSR Output	Relay + SSR Output
	Specification	Relay	1 C/O Contact, 230V AC, 5A (Resistive Load)	
		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 2000 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. 120 grams	
Material			Front Panel: PU Clading Housing: ABS or Equiv.	

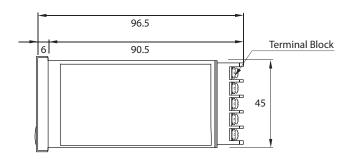
Note: The IP65 protection rating is valid only if the meter is fixed on the panel with the requisite rubber gasket



Dimension Drawing

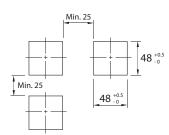
TCF

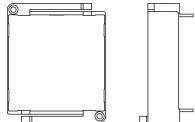




Panel Cut-out

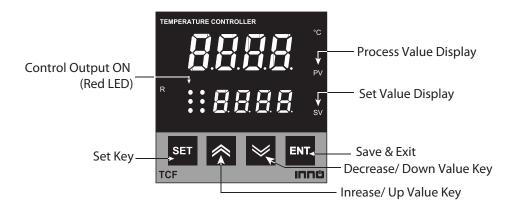
① Panel Adapter





All dimensions are in mm

Component Names and Function



www.inno.sg/tcf

ensing

Digital Panel Meters

Temperature Controllers

Timers & Counters

Level Controllers

Convertors & Amplifiers ensing

Digital Panel Meters

Temperature Controllers

Timers & Counters

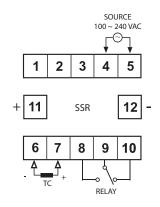
> Level Controllers

Convertors & Amplifiers

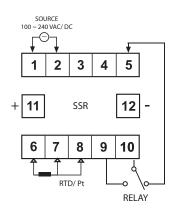
Automation We

Connections

♦ TCF-TC-RS230AC



♦ TCF-P-RS230AC



Exclusively Represented by:

Intech Systems Chennai Pvt Ltd S-2, Guindy Industrial Estate Chennai - 600 032. Ph: 4353 8888 Email: info@intechchennai.com

www.inno.sg

© INNO, Rights Reserved In the interest of continious product improvement specifications are subject to change without notice Cat. No. TCF-716

www.inno.sg/tcf