

This is compact temperature controller featuring large variety of functions.



TC-3000A



Display

Back Side

DIGITAL TEMPERATURE CONTROLLER

Order No.	Model No.	Temperature Setting Range	Min. Display Unit	JPY	Ref.No
N 1-4597-21	TC-1000A	-20.0~500.0°C	0.1°C	¥ 24,000	039470
N 1-4597-22	TC-2000A			¥ 30,000	039470
N 1-4597-23	TC-3000A			¥ 36,000	039470
1-4597-11	Pt100Ω Sensor		φ 4.0×200mm	¥ 7,200	039460
1-4594-12	Output Lead Wire (for alarm output)		1.5m	¥ 4,000	039470
N 1-4594-26	Communication Cable	USB Cable	2.0m	¥ 2,500	039470
1-5200-21	Sensor Protective Tube		For φ 4mm (FEP)	¥ 1,500	039470

Feature

<TC-1000A · 2000A · 3000A Common Feature> ● Device is equipped with 4 types of timers (ON · OFF · ON/OFF · SET). ● Temperature controller also features self-diagnostic functions such as heater malfunction detection and sensor malfunction detection. ● Controller regulates temperature accurately with integrated microprocessor PID control system.

<TC-2000A · 3000A Common Feature> ● These controllers are equipped with repeat function and programming function that allows you to input up to 8 steps for temperature and time. <TC-3000A> ● With dedicated software (CD-ROM) that comes as standard feature and is used for data storage and communication, possible to easily manage testing data on your computer (communication cable is sold separately). ● Device comes with alarm signal output function as standard feature, allowing you to stop other equipment or to start reserve system if error occurs.

Specification

Model No.	TC-1000A	TC-2000A	TC-3000A
Display Accuracy	F·S ± 0.5%		
Control Method	Microprocessor PID control		
Display Method	LCD Digital Display (simultaneous display of setting/measured temperature · heater output bar graph display)		
Sensor	K Thermocouple (standard) · Pt100Ω (option)		
Safety Function	Self Diagnosis Function (heater failure detection · sensor failure detection) · Circuit Protector		Self Diagnosis Function (upper/lower temperature error detection · heater failure detection · sensor failure detection) · Circuit Protector
Additional Function	Timer Function : Setting Range / 1minute ~ 99hours 59minutes (1minute unit) · Set Value Memory Function · Key Lock Function · Auto Tuning Function Program Function : (1) No. of Steps / Max. 8-steps (2) No. of Repetitions / Max. 9999 (3) Set Resolution / 0.1°C in Temperature · 1minute in time (4) Time Setting Range / 1minute ~ 99hours 59minutes (1minute unit)		
Power Supply	AC100V 50/60Hz	Control Output (3P	AC100V MAX12A)
Dimensions	147 × 150 × 112mm		
Accessories	K Thermocouple (φ 4.0 × 200mm) × 1		

THERMOSTAT

Order No.	Model No.	Setting Temperature Range (°C)	Sensor Type	JPY	Ref.No
1-6123-01	TJA-450K	0 ~ 399	Thermocouple (K)	¥ 30,000	039470
1-6123-02	TJA-450P	0.0 ~ 99.9	Pt100Ω	¥ 32,000	039470
1-6124-01	TJA-550K	0 ~ 500	Thermocouple (K)	¥ 35,000	039470
1-6124-02	TJA-550P	0.0 ~ 200.0	Pt100Ω	¥ 37,000	039470
1-5200-21	Sensor		for φ 4 mm (FEP)	¥ 1,500	039470
1-5196-22	Protection Tube		for φ 3.2mm (FEP)	¥ 1,500	039470

Specification

Model No.	TJA-450K	TJA-450P	TJA-550K	TJA-550P
Control Method	ON/OFF Control (2-positions method)		PID Control (auto tuning)	
Display Accuracy	±1% (FS) + 1digit or 3°C, whichever the larger		SV ± 3% or 3°C, whichever the larger	
Setting Method	3-digit Digital Switch Setting		Sheet Key-touch Method	
Connecting Capacity	MAX15A (under resistance load)		MAX10A (under resistance load)	
Attached Sensor	K Thermocouple φ 3.2 × 200mm (stainless sheath (SUS304)) Cable Length 1.9m	Pt100Ω φ 4 × 200mm (stainless sheath (SUS304)) Cable Length 1.9m	K Thermocouple φ 3.2 × 200mm (stainless sheath (SUS304)) Cable Length 1.9m	Pt100Ω φ 4 × 200mm (stainless sheath (SUS304)) Cable Length 1.9m
Output Terminal	3P Outlet, M4 Bis Terminal			
Power Supply	AC100V 50/60Hz			
Dimensions	135 × 150 × 94mm			

Feature

- Equipped with 2 output terminals of 3P receptacle and terminal stop.
- TJA-450 series temperature setting can be done easily and precisely by just pressing the DIP switch.



TJA-450 Type

Back Side



TJA-550 Type

Back Side

- TJA-550 series temperature control system allows highly accurate temperature control with PID control (auto tuning equipment).
- TJA-550 series temperature display adopts PV/SV two-level display which shows measured values and set values at a glance, preventing setting mistakes and so on.

1 Laboratory Equipment

2 Measuring Equipment

3 Laboratory Furniture

4 Life Science and Analysis

5 Bottles and Containers

6 Laboratory Related Tools and Fixtures

7 Cleaning and Sterilization

8 Safety Protection Supplies

9 Clean Environment Equipment

A Balances

B Thermometers and Hygrometers

C Data-Loggers and Recorders

D Water and Soil Analysis

E Air and Gas Analysis

F Natural Environment Analysis

G Electrical Measuring Equipment

H Physical Property Measuring Equipment

I Microscopes

J Fiber Scopes and Loupes

K Lasers / Optical Equipment

L Measuring Tools