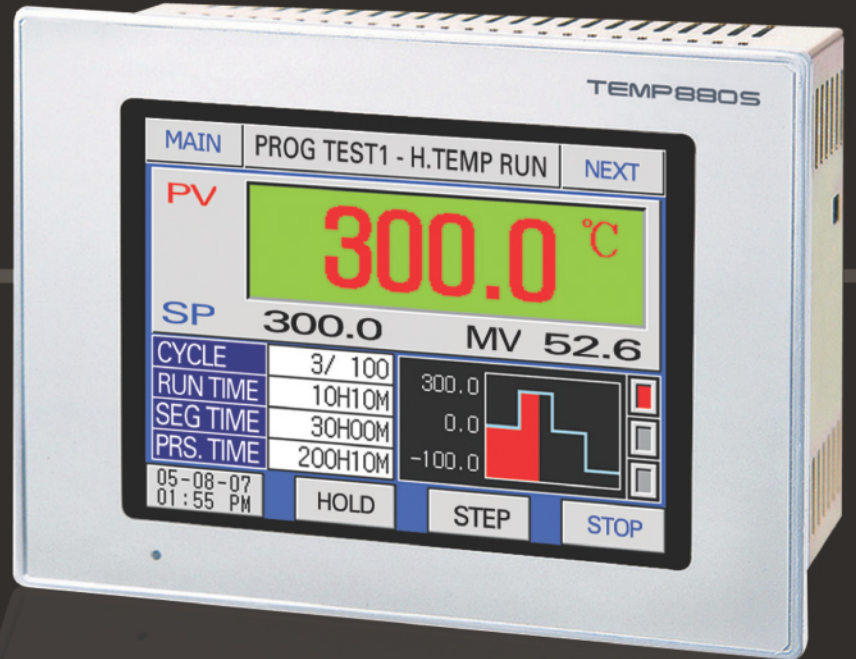


CE



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Your Best Partner!



THERMAL SHOCK TEST CONTROLLER

TEMP880S

- Damper & Elevator Type Support
- USB Memory Function
- Variable Languages
- Excellent Accuracy
- Touch Type Interface
- PV Graph Display



Your Best Partner!

- ▶ High Brightness Color Touch Interface
- ▶ Dialogue Type Parameter Input
- ▶ Korean, English, Chinese
- ▶ I/O Relay Board with internal SMPS
 - Simplified Wiring and Saving Prime Cost
- ▶ Damper & Elevator Type Support
- ▶ Controlling and monitoring Controller with PC
- ▶ Free setting of 36 type outputs(Internal Timer)
- ▶ USB Memory Function with UDC100(Optional)
 - Replacement Recorder
- ▶ Advanced PID Algorithm with built-in Auto-tuning Function
- ▶ Applying different deviation value as High Temp. Room or Low Temp. Room → Precision temperature control
- ▶ Powerful Communication and 99 Sets Multi-drop Function
- ▶ Excellent Fuzzy Function and ARW Operation
 - External Shock Control and Over-shooting Suppression
- ▶ PV Graph Display(0~8 Days)

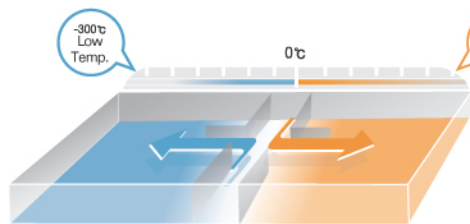


Specifications

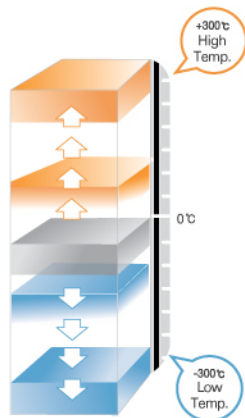
Items	Type	TEMP880S
Display	LCD	5.7 Inch Color Touch Type
Program	Pattern	120 Patterns
	Pattern Type	High Temp.→Low Temp., Low Temp.→High Temp., Normal Temp.→High Temp.→Normal Temp.→Low Temp., Normal Temp.→Low Temp.→Normal Temp.→High Temp.
	Repeat / Segment time	Max.9999 Times/99 Hours 59 Minutes
Operation method	Operation Kind	2 Zones of Damper & Elevator Type
PID Control	PID Group	Group PID:3 Zones, Deviation PID(Applying different deviation value as high or low Temp. room):1 Zone
Input	Input Sensor	Universal input 3 Points(High Temp., Low Temp., Lab Room), ±0.1% of FS
	Input Type	T/C:K,J,E,T,R,B,S,L,N,U,W,Platinel II
Output	Control Output	2 Points(High Temp. Room, Low Temp. Room)
	Type of Output	SSR Output On voltage: Over 15V DC, Minimum Pulse width:5ms SCR Output 4~20mA DC, Load resistance:Max.600Ω
Retransmission	Retransmission Output	High Temp. PV, Low Temp. PV, Lab Room PV
	Type of Output	4 ~ 20mA DC / Max. 600Ω
Defrosting Output	Cycle / Temp. / Time	Max.9999 Times/Min-10℃~Max.100.0℃/Min.1 Minute ~99 Minutes
	Manual Defrosting	Operating by On/Off
Contact Input	Type of Input	DI1:RUN/STOP(Fixed), DI2~8:Error Message Names are editable
	Special Function	DI6~DI8:Changeable Relay Output and Operation Status(RUN/STOP) under the DI Contact
	Input Mode	Max. 12V DC, 10mA
Contact Output	Contact Output	Max.20 Points(Standard 10 Points, Option 10 Points)
	Type of Output(Total 36 Points)	Inner Signal:8 Points, Time Signal:3 Points, Defrosting Signal:1 Point, Alarm Signal:4 Points, DI Signal:4 Points Run Signal:1 Point, End Signal: 1 Point, Damper On & Off Signal:6 Points Error Signal:1 Point, Sol Valve Signal:1 Point, 1st Ref Signal:1 Point, 2nd Ref Signal:1 Point Fan Signal:3 Points, N ₂ Gas Signal:1 Point
Power Supply	Power Supply / Insulation Resitance	100~240V AC(±10%), 50/60Hz, Power Consumption:Max.15W/500V DC 20MΩ
	Lithium Battery / Dielectric Strength	Setting Data Preservation(Min. 10Years)/2000V AC per 1 Minute
Communication	Protocol	PC-Link, MODBUS(ASCII, RTU)
	Type of communication	RS232C/RS485- Distance Max. 1.2Km, Max.99 Sets Multi-drop, Speed Max. 9600bps)
Graph	Display Type	Graph of Setting Program and Process Status/ Graph of Lab Room Temp./Recording(Max.8 Days)
Data Backup	Replacement of Recorder	UDC100(Optional):Available General USB Memory Stick(FAT16 Support)
	Data Storage Function	Program Information & Setting Value Download and Upload, Temperature PV Storage

Special Features

● Damper & Elevator Type Support



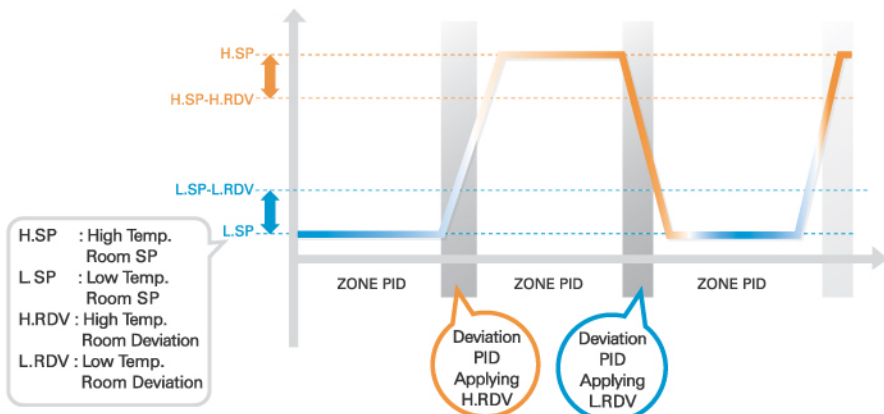
► Damper Type



► Elevator Type

● Deviation PID- Applying different deviation value as High Temp. Room or Low Temp. Room

It is possible rapid and stable control under quick increasing and decreasing section.

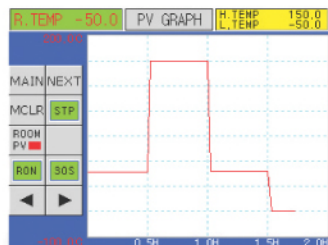


● The 2nd Operation Screen



It can display PV, MV, SP, WAIT SP of High Temp., Low Temp. and Lab Room and Relay Lamp on the operation screen.

● PV Graph Display Function



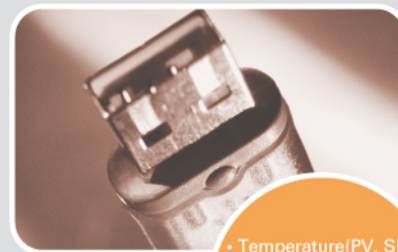
It can record Lab Room temperature with real time.(Max.8 Days)

● Multi-drop Function



- As synchronizing slave controllers with TEMP880S(Master) setting point, the controllers operate same program as TEMP880S.
- Low price digital controllers can operate same as programmable controller-Saving prime cost.

USB Memory Storage Device Support



- Temperature(PV, SP) Record
- Program and Setting Value Upload/Download

Variable Languages



- Korean, English, Chinese

Excellent Accuracy



- Input Resolution - A/D 18 Bits
- Output Resolution - Retransmission 14 Bits

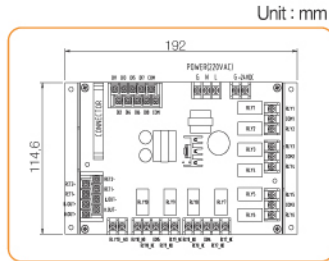
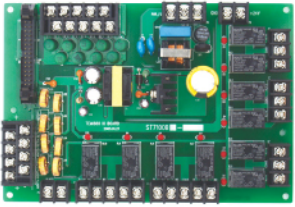
Touch Type Interface



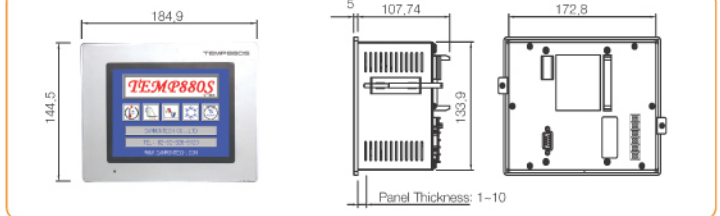
- Easy Use with Touch Screen Interface

Quality parts

I/O Board



Panel Cutting Size



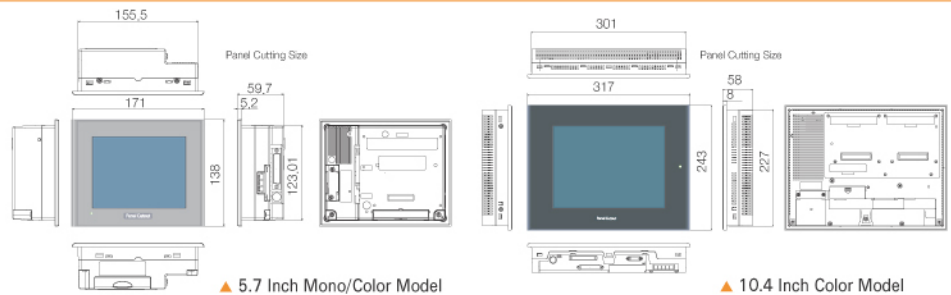
Model And Suffix Code

Model	Type	Suffix Code	Description	Option	Description
TEMP880S	Color Type	10	Standard I/O RELAY BOARD (10 Points) & RS232C	UDC	USB Memory Storage Device
		11	Standard I/O RELAY BOARD (10 Points) & RS485		
		20	Standard (10 Points) + Additional I/O RELAY BOARD (10 Points) & RS232C		
		21	Standard (10 Points) + Additional I/O RELAY BOARD (10 Points) & RS485		

▶ Standard Model Order Example: TEMP880S -10

PLC Type Model (Supporting 2 & 3 Zones)

Item	Description
Input	T/C, RTD(PT100)
Output	SSR/SCR(Selectable), Retransmission
Pattern	30 Patterns
Contact Input	DI 9 Points
Contact Output	DO 15 Points



Application Products



Model	UDC100 (USB Storage Device)
Item	Description
Dimension	73.1 x 28.1 x 83.5 mm, 145 g
Power Supply	(DC5V, 150mA)
Speed	19200 bps (Max)
Connector	TEMP800S Body : Terminal Block UDC100 Body : Terminal Block
Detail Specifications	REC/STS LED, RESET Switch USB Socket Memory Stick (FAT16 Support)



Model	CV1 (RS232C to RS422/485 Converter)
Item	Description
Dimension	43.8 x 23.8 x 796 mm, 112 g
Power Supply	Adaptor (DC9V, 300mA)
Communication	Asynchronous Method Serial Communication
Speed	115.2 Kbps(Max)
Distance	1.2Km(Max)
Connector	RS232C : D-Sub Connector(9Pin, Female) RS422/RS485 : Terminal Block
Detail Specifications	PWR, RTS, RXD, TXD LED 2 Lines (RS485), 4 Lines (RS422) Used RTS/DTR Slide Switch Termination Resistance (220Ω) Include, 2500V Isolation



Model	SPS24 (Switching Power Supply)
Item	Description
Input	85 ~ 250V AC, 50/60Hz
Output	Voltage : 24V DC, 0.8A Ripple : Max. 240mVp-p
Detail Specifications	Input-Output : 1500V AC/Minute 500V DC100MΩ (At Room Temp & Humi) Operating Condition: -10~+50℃, 20~90% RH (Non Condensing) Storage Condition : -20~+70℃, 20~90% RH (Non Condensing) Vibration: 10~105Hz at 0.5G, 30Minutes along X, Y and Z Axis



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