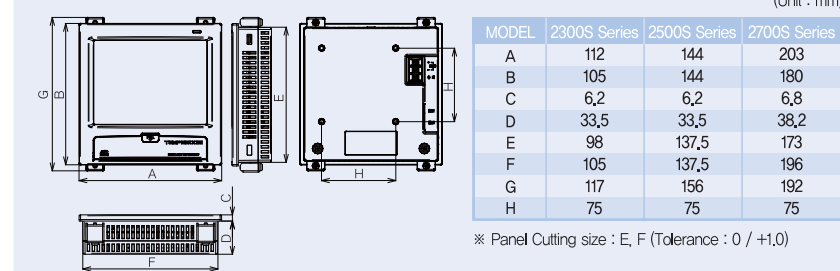


Product Specification

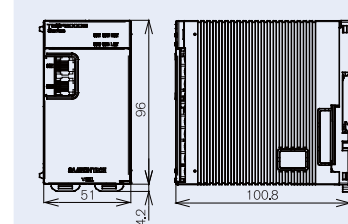
Classification	Items	TEMP2300S	TEMP2500S	TEMP2700S		
Screen	Display	3.7" TFT-LCD	5.7" TFT-LCD	7.5" TFT-LCD		
	Resolution	640(W) × 480(H)				
	Language	English/Korean/Chinese, English/Korean/Japanese				
	User screen	Change of initial screen image, Electronic album function				
	Mount type	PANEL mount, VESA mount				
Program	Patterns	120 patterns				
	Pattern type (Six types)	① High temp. → Low temp. / ② Low temp. → High temp. / ③ Room temp. → High temp. → Room temp. → Low temp. / ④ Room temp. → Low temp. → Room temp. → High temp. / ⑤ High temp. → Room temp. → Low temp. → Room temp. / ⑥ Low temp. → Room temp. → High temp. → Room temp.				
	Repetition/setting time	Maximum 9999 times /999 Hours 59 Minutes 59 Seconds				
	Function	Standby motion, Pattern name input, Recovery mode after black out, Operation at the termination of pattern				
Operation method	Operation specification	Damper, Elevator type				
	Defrosting method	Heater, Hot gas, Manual defrosting				
PID Control	PID group	Total 4 groups (3 groups of PID range + 1 group of PID deviation), *In case of applying the PID deviation, the Deviation value of the high and low temp. room are applied separately				
Analog input	Input specification	3 points of universal input (High Temperature Room, Low Temperature Room and Laboratory Room)				
	Sensor type	T/C K, J, E, T, R, B, S, L, N, U, W, Platinum II, C				
	Sampling period	500ms				
Analog output	Output specification (Maximum 4 points)	Voltage output (SSR) 4 points ON voltage 24V DC (Load resistor : Min, 600Ω/Pulse width : Min, 5ms) Current output (SCR) 4 points 4~20mA DC (Load resistor : Max, 600Ω)				
	Output type	Control output /Transmission output (High Temperature Room PV, Low Temperature Room PV and Laboratory Room PV)				
	Output level	±0.3%(D/A 14bits)				
	Contact point specification	Basic 16 points (Contact point capacity : Max. 12V DC, 10mA) Selection of operation for A or B point				
Digital input	Contact point function	Operation/Stop, Hold, step, Operation pattern select, Damper sensing for High temp room/Room temp room/Low temp room, Setting the DI sensor detect delay time DI error screen selection (Display of error message and user setting photograph)				
	Number of contact points	Basic 12 points (8 points of A contact point relay + 4 points of C contact point relay), Option add function (20 point of A contact point relay)				
Digital output	Contact points specification	Normal Open(Max, 30V DC/1A, 250V AC/1A), Normal Close(Max, 30V DC/1A, 250V AC/1A)				
	Output type	Inner signal(8 points)	Time signal(4 points)	Alarm signal(4 points)	Freezer signal(2 points)	Sensor short signal(3 points)
		DI signal(16 points)	Manual signal(12 points)	Operation signal(1 point)	Sol valve (1 point)	Operation termination signal(1 point)
		Arithmetic signal(3 points)	Error signal(1 point)	Standby signal(2 points)	User signal(1 points)	N2 gas signal(1 point)
	Fan signal(3 points)	Damper signal(6 points)	Defrosting signal(1 point)	Laboratory signal(3 points)		
Data backup	Storage media	SD/SDHC card (FAT32 format)				
	Function	Program pattern/Backup and recovery of parameter set data, Available for saving the indicated setting value for laboratory, High temperature room and low temperature room				
Communication	Communication specification	Basic : Optional for RS232C/485, Connectable of 31 units in maximum, Communication speed : Max 115,200bps Option : Ethernet (TCP/IP) *In case of selection of Ethernet, RS232C/485 is not available				
	Electric power	Electric power/lithium battery 24V DC 22VA Max / Set data reservation (CR2032)				

External dimension and Panel cutting size

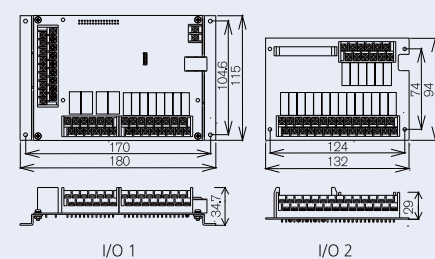
Display Part



Controlling Part



I/O Board



Model code

TEMP2*00S-0*/**

- LCD display size
3 : 3.7inch | 5 : 5.7inch (IP65 Certificate) | 7 : 7.5inch
- I/O Board
0 : I/O1 (Relay 12 points) | 1 : I/O1, 2 (Relay 32 points)
- SD card
SD : SD Card
- Ethernet communication
CE : Ethernet(TCP/IP)

SDR100(Digital recorder)

It is a paperless full graphic digital recorder and it supports the high resolution TFT-LCD touch screen and SD card and it is a product with speedy graph search function.



TEMP 2000S SERIES

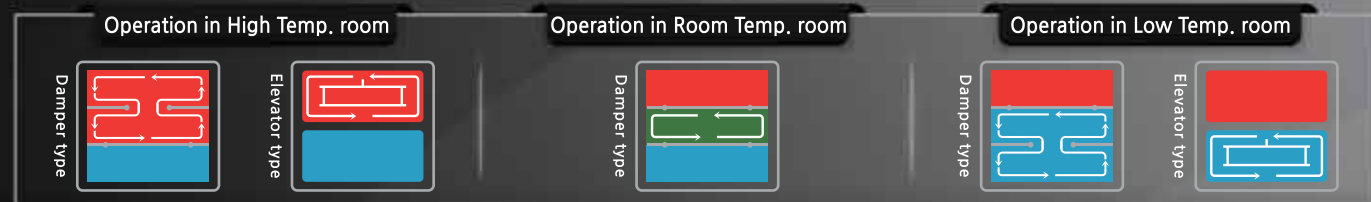
Thermal Shock Tester Controller

- Damper & Elevator chamber type support
- SD memory card support
- Digital Recorder function
- Separation Type product configuration
- Various Defrosting Type support
- High resolution screen
- CE/IP65 Certificate

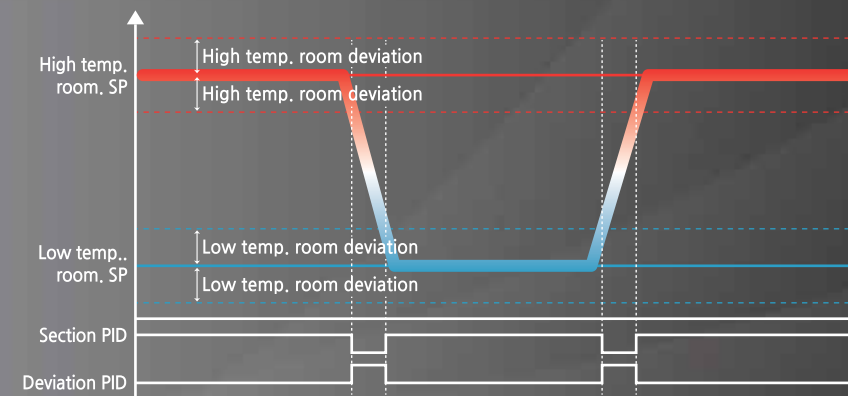


Thermal Shock Tester Controller

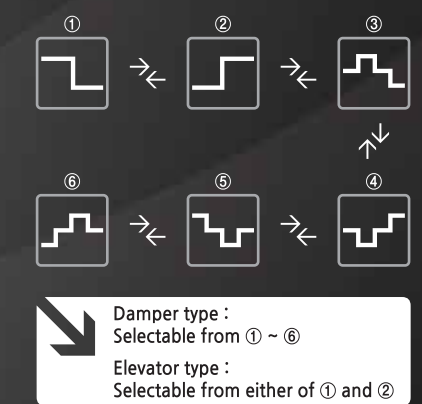
TEMP 2000S SERIES



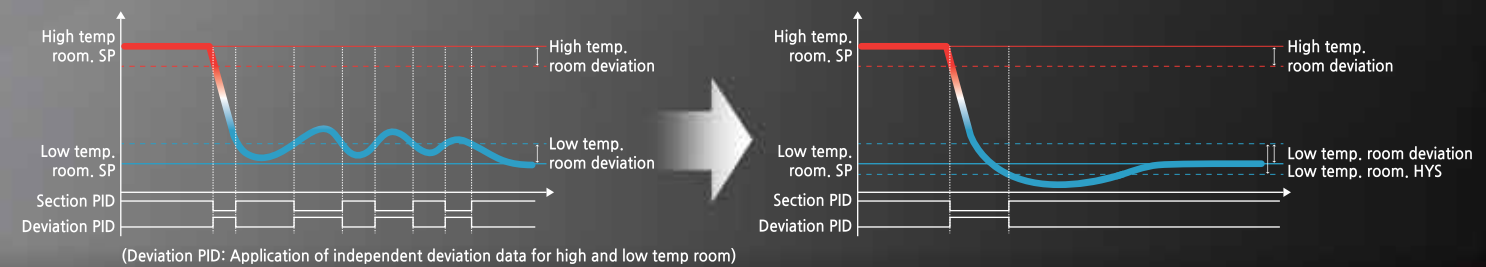
Available for speedy and stable controlling on the rapid ascending/descending section >



Various pattern programmable operation control >



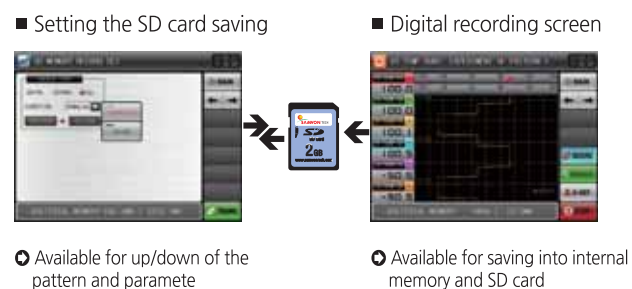
Available for preventing the initial hunting due to the lack of freezing capacity in low temperature room with adoption of low temp. room deviation hysteresis >



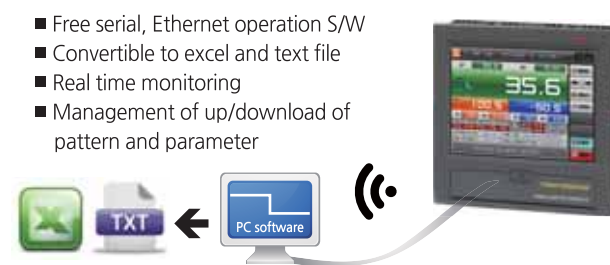
Main Functions >

- Easy and Convenient Touch Type**
Easy operation and setting using touch screen interface
- Digital Input**
Operation/stop, hold/step, pattern selection, damper sensing and error detection are available by using the 16 points DI input signal and it supports the DO output for error name change and DI input
- Digital Graphic Recording Function**
Real-time Monitoring & Data manage Operation Status of Present Value/Zone of Experiment, High, Low through Full Digital Graph
- Digital Output**
73 types of DO signals (Arithmetic, DI, Damper, IS, TS, ALM, RUN) are available with 32 points (12+20) contact point output
- Various Pattern Operations**
Six types programmable operation
Total 120 pattern/999,59M, 59S
- Powerful Communication Environment**
Basic include RS232C/485 serial communication (Communication speed 115,200bps)
Ethernet support option
- Standby Type Select**
In case Operation Starts, select Standby-act(Pre-Heating, Pre-Cooling) & select conditions for Standby-act cancel
- Multi Language Manu**
Supporting of various languages of Korean, English and Chinese / Korean, English and Japanese and it is appropriate for globalization
- Various Defrosting Methods**
Heater1 type(Defrosting during pre-set time), Hot-gas type, Manual type and Heater2 type(Present value = Defrosting for set time from set value)
- Function of Input Data Calibration**
Available for entire calibration for general application and sectional calibration
8 points of calibration in laboratory section

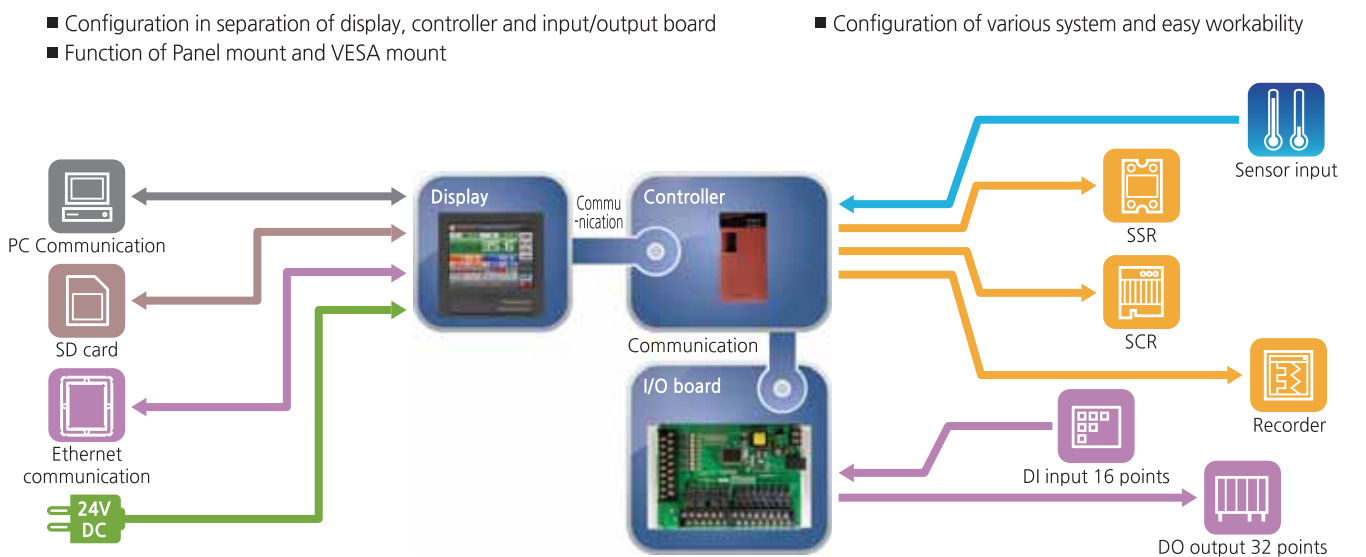
Parameter Backup and Recording >



Free Operation S/W >



Separated Type Hardwares >



Various Screen Configuration for Easy Operation >

