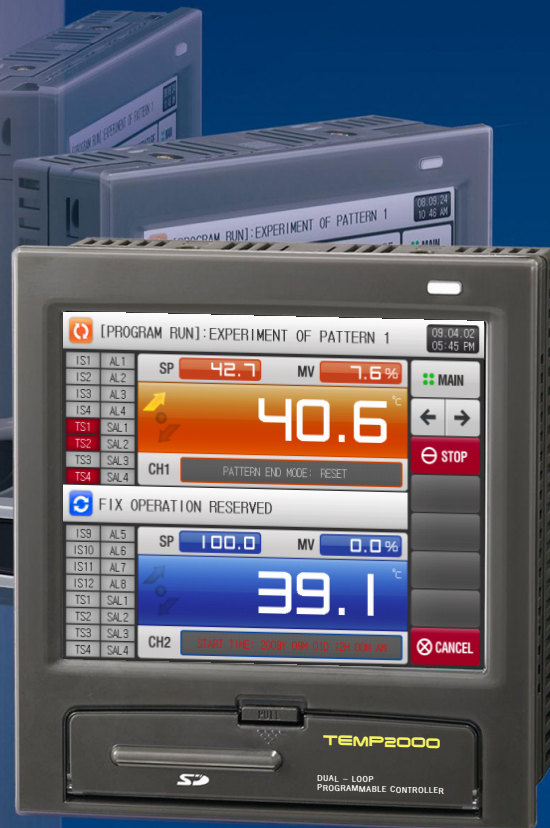


Your best partner!

Separate
type

DUAL, SINGLE – LOOP
Programmable Controller



Asynchronous / Synchronous Operation

Separable Display and Control part

High Resolution Screen

Including Digital Recorder function

SD Memory card

VESA mount

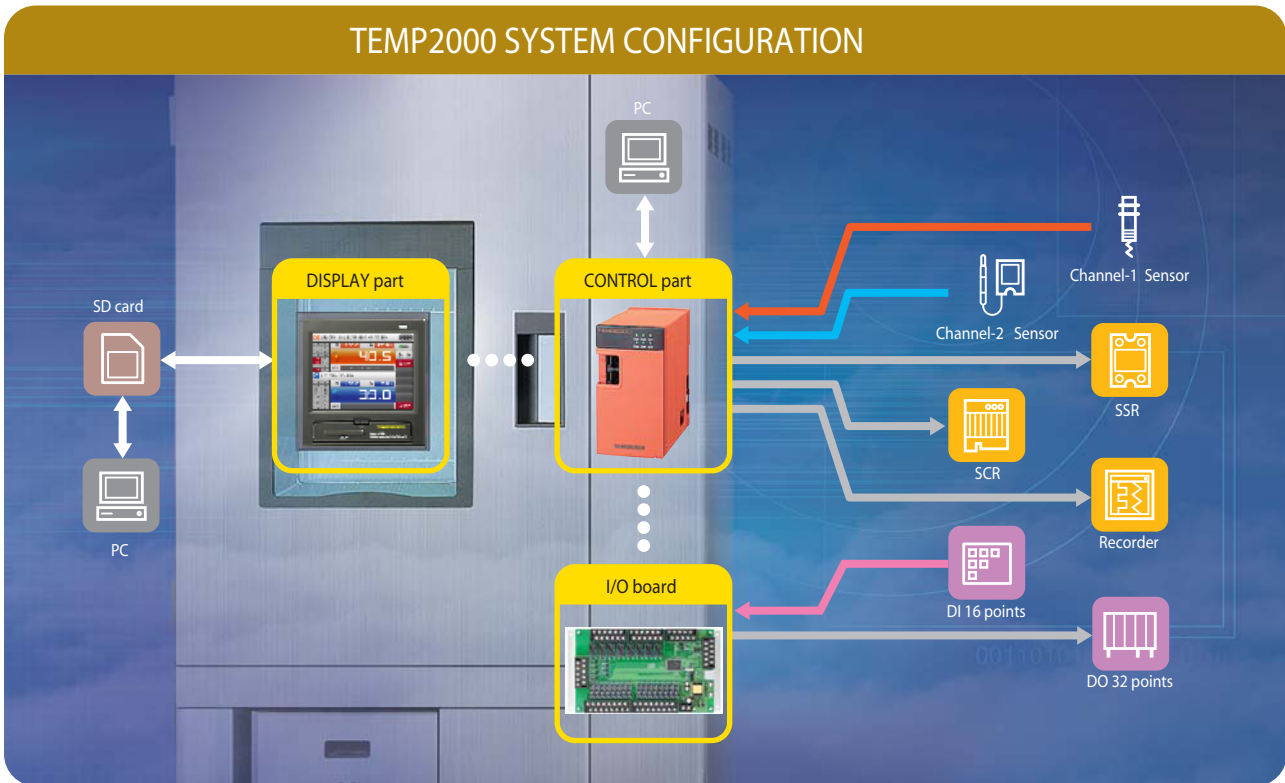
TEMP2000
Series

SAMWONTECH CO., LTD

Buchon Techno-Park 202-703, #192, Yakdaedong, Wonmiku, Buchon City,
Kyunggido, KOREA 421-831 T: 82-32-326-9120 F: 82-32-326-9119
E-mail : webmaster@samwontech.com

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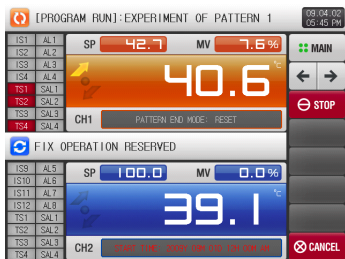
TEMP2000 SYSTEM CONFIGURATION



SPECIAL FEATURES

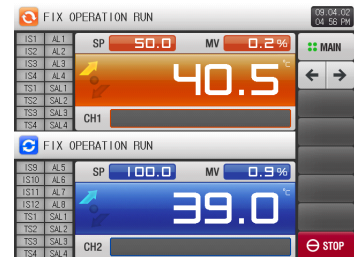
Individual Operation

1) Asynchronous operation mode



Individual operation of each channel

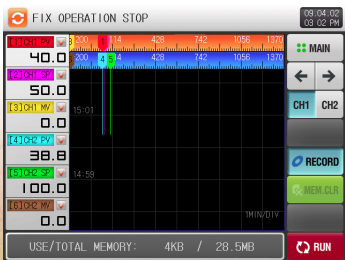
2) Synchronous operation mode



Collective operation of all channel

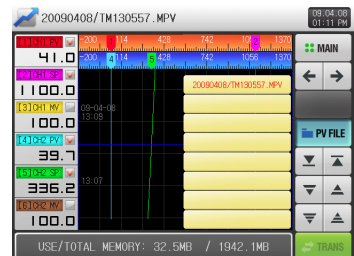
Powerful Graph Function

1) Real-time monitoring and data acquisition



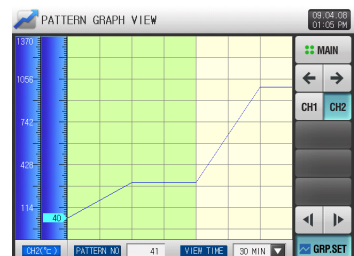
- Real-time display PV, SP and MV
- Saving to built-in memory
- Digital Recorder function
- No additional recorder required

2) Display graph of saved data



Display PV, SP and MV saved at built-in memory

3) Graph of setup patterns



Display setup pattern and processing status

What's Unique

Supporting SD memory card (Option)

1) Selectable Initial screen

User can choose appropriate initial screen



2) Editable Error Screen

Self-designed picture can be used.



3) Electronic Album

Company and product profiles can be displayed



4) Data recording with SD card

- Data acquisition of process value.
- Up/Download parameter and pattern data.



High Resolution Screen



Selectable PV fonts



High Accuracy

- Input : A/D 18 bits
- Output : SCR 14 bits
- Precision control : 0.01 •

Touch screen interface

Easy access with Touch Screen

16 points DI 32points DO

Sufficient contact points provided by default

Various Signals

56 kinds of different signals are available, wide coverage any situation

Various Applications

Single / Dual loop control
Asynch / Synch operation

Extended Pattern time

999h. 59m. 59s of Segment time with second time unit

Free PC software

- Monitoring on PC
- Remote operation & editing programs
- Graph & Data acquisition
- Converting saved data to spreadsheet

General Specifications

Item	Type	TEMP2300	TEMP2500	TEMP2700
Display	TFT-LCD (LED Backlight)	3.7 inch Color VGA (640*480)	5.7 inch Color VGA (640*480)	7.5 inch Color VGA (640*480)
Install	Mount method	Available both of Panel mount and VESA mount (MIS-D 75)		
Configuration	ST'D component	Display part, Control part, I/O board		
	Patterns / Segments	80 Patterns / 1,200 Segments		
Programs	Auxiliary function	Pattern / Segment repeat, Operating start code, PTEnd mode, Wait operation, Pattern Link, Experimental name		
Operation	Synch / Async	Synchronous / Asynchronous mode for PROG/FIX and RUN/STOP operation		
PID Control	PID Group	6 Groups / 1 Channel (5 ZONE PID, 1 DEVIATION PID)		
	Auxiliary function	PID Gain, Changeable Tuning Point		
Input	Accuracy	$\pm 0.1\% + 1\text{Digit}$ of FS (RJC accuracy : $\pm 1.0\text{ }^\circ\text{C}$)		
	Sampling time	250ms / channel		
	Resolution	18 bit A/D Convertor DC voltage		
	Type	T/C	K, J, E, T, R, B, S, L, N, U, W, Platinel II	
		RTD	PT100 Ω , JPT100 Ω	
DC Voltage		0.4~2V, 1~5V, 0~10V, -10~20mV, 1~100mV (4~20mA, 0~20mA, Load Register 250, 500 Ω)		
Available Display Unit	$^\circ\text{C}$, $^\circ\text{F}$, BLANK, %, Pa, kPa, %RH, mV, V, Ω , mmHg, kgf			
Output	Type	SSR (2 points), SCR (2 points), RELAY, Open Collector (option)		
	Control output method	Normal Control, ON/OFF control		
Digital Input	Contact type	ST'D 16 points (Capacity : Max 12V DC, 10mA)		
	Contact function	RUN/STOP/HOLD/STEP by DI, Selectable Pattern by DI, Delay time of detecting DI error, Editable DI error screen		
Digital Output	Contact method	Max. 32 points Relay/Open-Collector (ST'D 20 Points + Optional 12 points)	ST'D 4 points C-contact	Normal Open (Max. 30VDC/5A, 250VAC/5A) Normal Open (Max. 30VDC/1A, 250VAC/2A)
			ST'D 8 points A-contact (Add. 20points Op.)	Max. 24V DC, 50mA Normal Open (Max. 30VDC/3A, 250VAC/3A)
	Contact type	Inner Signal (16 points), User Signal (1 point), Time Signal (8 points), Alarm Signal (16 Points) Temp. ON/OFF Signal (14 points), RUN Signal (2 points) Sensor Open Signal (2 points), Wait Signal (2 point), UP/SOAK/DOWN Signal (6 points) FIX/PROG END Signal (4 points), Error Signal (1 point) 1st refrigerator Signal (2 points), 2nd refrigerator Signal (2 points)		
Power Supply	Power	Display part : 24V DC 400mA, Control part : 24V DC 400mA, I/O board : 24V DC 600mA		
	Lithium battery	For setup data retention (CR2032: Min.10 years)		
Communications	Protocols	PC Link, PC Link with Checksum, MODBUS RTU, MODBUS ASCII, Master-Slave Sync communication		
	Method	Selectable RS485 / RS232C with DIP switch, Max 99 nodes, 115,200bps, Selectable Master Channel - Ch1, Ch2		
Data Back-Up	Data-Media	SD card, MMC card (FAT32)		
	Logging function	Back up and restore Program-patterns/parameters, PV saving		
	PV graph / Pattern graph	Real-time display processing data of PV, SP and MV		
		Saving data to built-in memory, Open saved graph data		
	BMP file	BMP file upload → Initial / Error / User information screen		
	Other functions	Error history recording, Status message, User output, KOR/ENG/CHI/JPN language set, 3 kinds of font, Electronic Album, Program start code, Segment time (999 h. 59m.59s.)		

Model Suffix Code

Model	**	Description	Display size	Optional features
TEMP23**	10	Single Loop	3.7 inch	/ SD : SD card adapter / RLY20 : Additional 20 Relays / RJ45 : Ethernet support
	20	Dual Loop		
TEMP25**	10	Single Loop	5.7 inch	
	20	Dual Loop		
TEMP27**	10	Single Loop	7.5 inch	
	20	Dual Loop		

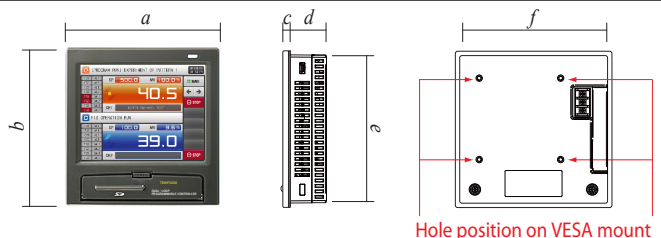


Display size

Panel Cutouts

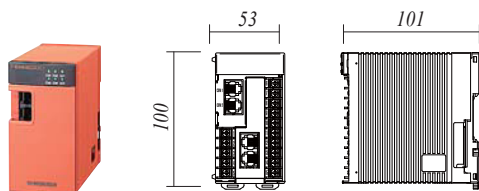
Unit : mm

Model	a	b	c	d	e	f
TEMP2300	112	105	6.5	33.5	98 ^{+0.6} ₀	105 ^{+0.6} ₀
TEMP2500	144	144	6.5	33.5	137 ⁺² ₀	137 ⁺² ₀
TEMP2700	210	170	8	50	160.5 ⁺² ₀	200.5 ⁺² ₀



Hole position on VESA mount

Dimension of control part



Dimension of I/O board

