

Separate
type

Programmable Temperature & Humidity Controller

Your best partner!



Separable Display and Control part

High Resolution Screen

Including Digital Recorder function

SD Memory card

VESA mount

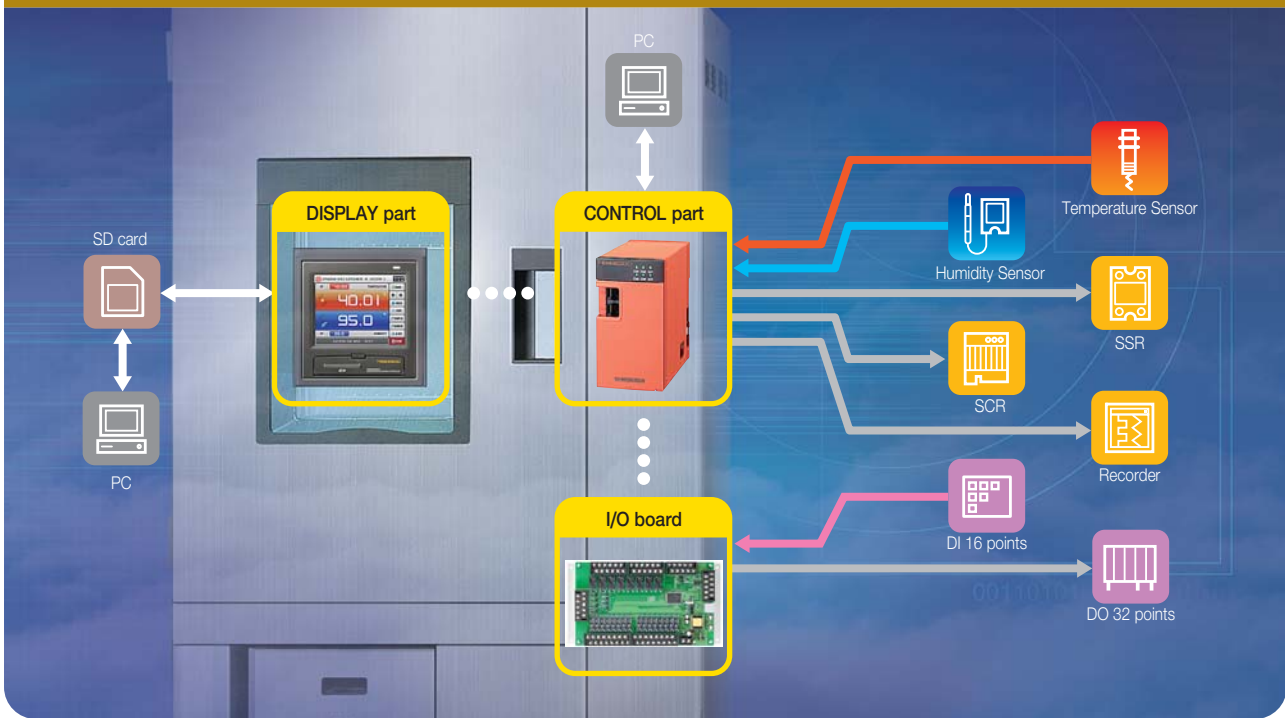
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TEMI2000
Series

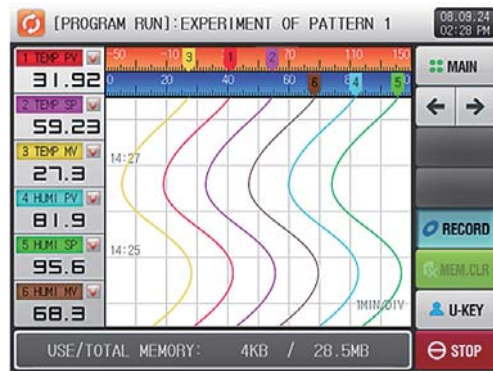
TEMI2000 SYSTEM CONFIGURATION



SPECIAL FEATURES

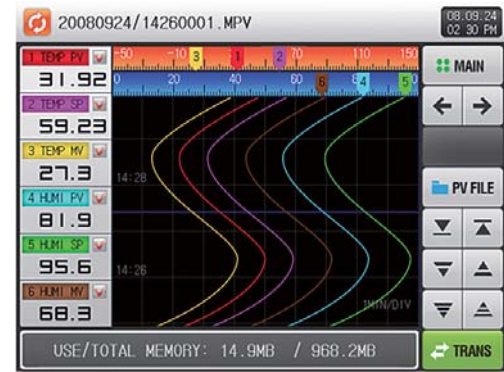
Powerful Graph Function

1) Real-time monitoring and data acquisition



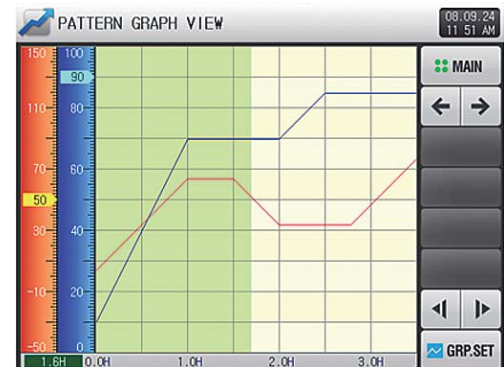
- Real-time display PV, SP and MV
- Saving to built-in memory
- Digital Recorder function
- No additional recorder required

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 °C



Touch screen interface

Easy access with Touch Screen



16 points DI 20 points DO

Sufficient contact points provided by default



Various Signals

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



Differentiated Humidity control mode

Selectable humidity control modes on extreme situations



Extended Pattern time

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



Free PC software

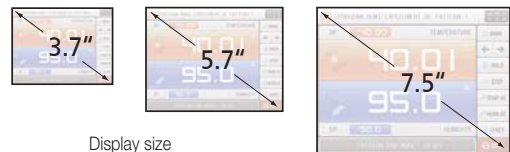
- Monitoring on PC
- Remote operation & editing programs
- Graph & Data acquisition
- Converting saved data to spreadsheet

General Specifications

Item	Type	TEMI2300	TEMI2500	TEMI2700
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	120 Patterns / 1,200 Segments		
Programs	Auxiliary function	Pattern / Segment repeat, Operating start code, PTEnd mode, Wait operation, Pattern Link, Experimental name		
PID Control	PID Group	6 Groups for Temp./Humid., 3 Groups for Temp. only		
	Control mode	DCV Humidity sensor type : Absolute humidity / Relative humidity		
	Auxiliary function	PID Gain, Changeable Tuning Point		
Analog Input	Input type	Temperature (±0.1%+1Digit of FS)	PT1 100 Ω	-90.00~200.00 °C
			PT2 100	-100.00~300.00 °C
		Humidity (±0.1%+1Digit of FS)	DC voltage	-1.000~2.000V
			PT100 Ω	-10.0~110.0 °C
Analog Output	Output method	Voltage(SSR) 2 points	ON : 24V DC (Pulse width:min. 5ms)	
		Current(SCR) 2 points	4~20mA DC (Load resister : Max. 600 Ω)	
	Output type	Control output	MV of Temp. & Humid. (0~100%)	
		Retransmission	Selectable signal among PV, SP and MV	
Digital Input	Contact type	ST'D 16 points (Capacity : Max 12V DC, 10mA)		
	Contact function	RUN/STOP/HOLD/STEP by DI, DI detection delay time, Editable DI Error screen		
Digital Output	Contact method	Max. 32 points Relay/Open-Collector (ST'D 20 Points + Optional 12 points)	ST'D 8 points C-contact	Normal Open (Max. 30VDC/5A, 250VAC/5A) Normal Open (Max. 30VDC/1A, 250VAC/2A)
			ST'D 8 points Open-Collector	Max. 24V DC, 50mA
			ST'D 4 points A-contact (Add. 12 Pts :Op.)	Normal Open (Max. 30VDC/3A, 250VAC/3A)
	Contact type (56 sets)	Inner Signal (10 points), User Signal (1 point), Time Signal (4 points), Alarm Signal (8 Points) Temp. ON/OFF Signal (10 points), Humid. ON/OFF Signal (5 points), RUN Signal (2 points) Sensor Open Signal (2 points), Wait Signal (2 point), UP/SOAK/DOWN Signal (5 points) FIX/PROG END Signal (2 points), Drain Signal (1 point), Error Signal (1 points), 1st refrigerator Signal (1 points), 2nd refrigerator Signal (1 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		
	Method	Selectable RS485 / RS232C with DIP switch, Max 99 nodes, 115,200bps		
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, Humid. display (auto/man) 3 kinds of font, Electronic Album, Program start code, Segment time (999 h. 59m.59s.)		

Model Suffix Code

Model	Display size	Optional features
TEMI2300	3.7 inch	/ SD : SD card adapter / RLY12 : Additional 12 Relays / RJ45 : Ethernet support
TEMI2500	5.7 inch	
TEMI2700	7.5 inch	

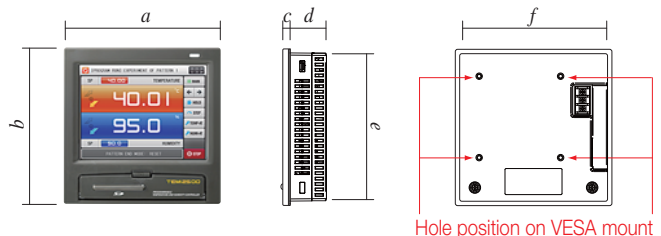


Display size

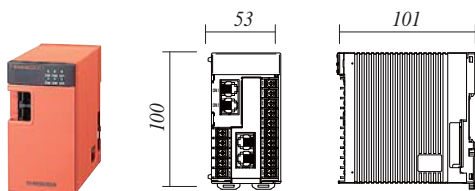
Panel Cutouts

Unit : mm

Model	a	b	c	d	e	f
TEMI2300	112	105	6,5	33,5	98 ^{+0,6} ₀	105 ^{+0,6} ₀
TEMI2500	144	144	6,5	33,5	137 ^{+2,0} ₀	137 ^{+2,0} ₀
TEMI2700	210	170	8	50	160,5 ^{+2,0} ₀	200,5 ^{+2,0} ₀



Dimension of control part



Dimension of I/O board

