

Temperature · Humidity programmable controller





RAPID DATA EXPLORATIONA & SEARCH



DIGITAL RECORDS & DIGITAL SIGNATURE



PRODUCT OPERATION LOG MANAGEMENT



BASIC SUPPORT FOR SD MEMORY CARD



AVAILABLE FOR DIGITAL RECORDING



CE / IP65 CERTIFIED PRODUCT







SPECIALITY OF APPLICATION FIELD

As a temperature and humidity convtoller, it satisfies both the dry-wet bul control method (PT-PT) and the direct-reading humidity control method (PT-DCV)

DIFFERENTIATION OF HUMIDITY CONTROL

Implementation of stable control by applying differentiation control algorithm by selecting humidity control mode according to chamber(equipment) size.

HIGH PRECISION CONTROL

Provide precision control of Temperature : $\pm 0.1\% \pm 1$ digit of F.S : ±1.0% ± 1 digit of F.S through 18bit A/D converter Humidity

SEGMENTATION OF CONTROL PID

It is divided into simultaneous control of temperature and humidity PID 6 group and temperature only PID 3 group, and implement control optimized for use conditions

HUMIDITY DISPLAY MODE SELECTION

Easy to manage humidity data for the test type by determining whether or not to display current humidity according to the humidity setting value Auto mode : "-.-" is displayed when setting humidity setting value 0.0% Manual mode : Current humidity value is displayed when setting humidity setting value 0.0%



EASY AND CONVENIENT TOUCH METHOD

Convenient product operation and setting using a touch screen interface



IGITAL INPUT

Able to operate/stop, hold/step, pattern select, error detect using 16 points of DI input signal support DO output to error name change and DI input



DI ERROR SCREEN EDIT

Able to display when error occur by producing/uploading images as desired by users



POWERFUL COMMUNICATION ENVIRONMENT

Ethernet support for RS232C/485 serial communication (Communication speed 115,200bps)



DIGITAL OUTPUT

80 different types of DO signals (Calculation, DI, Manual USER, IS, TS, ALM, RUN etc) can be used as 32points (12+20) contact output



DETACHABLE HARDWARE

Composed of separation of display unit, control unit, input/output board various system configurations and intallation are possible when construting chamber(Equipment) and system

STATUS DISPLAY LAMP CHANGE FUNCTION

· Status display lamp type and name can be changed to display on the operation screen



S' (E	tatus display lar Enter up to 5 cha	np name edit aracters max)		
	IS1	IS2	153	IS4
	SOL.1	SOL.2	SOL.3	SOL.4
	FAN	HEAT	T.OVR	H.0VR
	ALM1	ALM2	DOOR	LAMP
	DAMP	ERROR	T.RUN	H.RUN
•	1.REF	2.REF	DRAIN	L0G.1

OL.4

1.0VR

AMP H.RUN

INTERNAL WEB SERVER

- · Firmware update available through built-in web server
- · Accessible through various devices such as PC, Smartphone, Tablet etc.





Electronic

SIGNATIIRE

Access control

- User registration and management
- User authorization
- · User operation control

Electronic signature

signature management

· Control access to electronic

· Trend data electronic



Electronic record



- System history management
- User operation history management
- · Long-term data recording based on large file system

Audit trail

(||)TRAII

· Track system history

- User operation history tracking
- Track history by period and user



ACCESS CONTROL

· System operation based on authenticated users

· System user registration and management

signature data

· Restrict system access according to each user's authority (ADMIN: 1, MANAGER: 10, USER: 100)

USER'S AUTHORITY





trend and history management

system operation



ELECTRONIC RECORD

· Provide database of electronic document records for the history of system event occurence

- · Generate operation history data for user's operation
- · Record previous and subsequent values of operation data for parameter



Embedded Data-Base

- 01 Robust to data tampering and corruption by providing high security
- Easily and quickly perform a large amount of historical data search
- 03 Perform search filtering function by date and user more easily



ELECTRONIC SIGNATURE

electronic signature for each trend data recorded by authorized users





AUDIT TRAIL(Audit trail of system operation)

- \cdot Support tracking by user and period
- · CSV(Excal) conversion for output data



Product specification

Classification	Details	TEMI2500F			TEMI2700F				
	Display	5.7" TFT-LCD			7.5" TFT-LCD	7.5" TFT-LCD			
	Resolution	640(W) x 480(H)							
Scroop	Display language	Korean / English / Chinese (Simplified, Traditional) / Japanese							
Screen	Initial screen	Support user-set inital screen							
	User screen	16 screens can be used as an electronic album							
	Panel mount	Panel mount, VESA mount(MIS-D 75)							
	Number of inputs	2 points (temperature 1 point, humidity 1 point)							
	Sensor type	Temperature	PT1 100Ω	-90.00 ~200.00°C					
			PT2 100Ω	-100.0 ~ 300.0°C					
			DCV	-1.000 ~ 2.000V(-10	100.0 ~ 200.0°C)				
Analog input		Humidity	PT1 100Ω	-10.0 ~ 110.0°C(0.0	100.0%)				
			DCV	1.000 ~ 5.000V(0.0 ~ 100.0%)					
	Sampling time	Temperature and humidity each 250ms							
	Input degree	Iemperature ±0.1% of full scale ±1 digit							
		Humidity ±1.0% of full scale ±1 digit							
	Number of input correction	lemperature, humidity section correction of each 4 points							
	(Max, 4 points)	Voltage outpu	t(SSR) 4 points	Voltage. 24V DC (LC	ad resistance. IVIIn, 6	00 / Puise Width- Wilh, 5ms)			
Analog output		Control outpu	L(SCR) 4 POILLS						
	Output type								
	Contact specification	IU.3% (U/A 14016)							
Digital input	Contact specification	Desite to points(contact capacity: IVIAX, 12V 0C, 1011a), a contact of a contact action selection (i error occurrence screep selection)							
Digital hipot	Contact function	(display error message or user setting photo)							
	Contact specification	Basic 12points (20 points added when option is selected)							
		C contact relay basis 4 points Normal open(Max. 30V DC/1A, 250V AC/1A)							
		Normal close(Max, 30)		0V DC/1A, 250V AC	/ DC/1A, 250V AC/1A)				
		A contact relay basic 8 points							
Digital output	out	Add A contact relay - 20 points (IO2 option)							
	Contact type	Inner signal (10 poir	nts) On/off signal(temp.10P	oints, humi. 5Points) (Calculation signal (8points)	Error signal(1point)	User signal(1point)		
		Time signal(4points) Stationary, program termination signal(2points) D Alarm signal(8points) Up-soak down signal(6points) N Operation signal(2points) Stand by signal(2points) D		mination signal (2points)	I signal (16points)	Sensor disconnection signal(2points)	Freezer signal (2points)		
				Nanual signal (12 points)	Stationary timer signal(2points)				
)rainage signal(1points)					
	Number of patterns/segments	500atterns / 50,000 segments							
Program	Segment setting time	Iviax, 999 nours 59minutes 59 seconds							
	Function	Kising/tailing change rate, Stand by motion, Operation start condition, Pattern name input, Keturn mode after power failure, Motion at the pattern termination							
	Repeat	Enure repeat and section repeat							
Pid control	Pid group	9 PiD group (temperature, numidity PiD 6 group + temperature - only PiD 3 group)							
FIG CONTO	Other features	ZONE YIU Reference point setting of pute tuning. PID time constant conv. Unativity sentral and a set sting							
	Storage media	Reference point seturing of auto turning, FID time constant copy, numitally control mode selection							
Data back up	Storage function								
	Storage function	Basic: RS485/RS232C selectable by switch Max 31 units can be connected. Communication speed: Max 115 200bps							
Communication	Communication specification	Default: Ethernet(TCP/IP)							
contraincation	Protocol	PC-Link, Checksum), Modbus(ASCII, RTU, TCP)							
	Rated voltage	Max, 24V DC 22VA							
Power	Lithium battery	Setting data preservation(CR2032)							
		U	. ,						

External dimensions and panel cutting size



Model code



SAMWON TECHNOLOGY CO.,LTD. (TECHNO-PARK, YAKDAE-DONG) 202-703, 388 SONGNAEDAERO, WONMI-GU, BUCHEON-CITY, KYUNGGI-DO, KOREA T +82-32-326-9120 F +82-32-326-9119 E webmaster@samwontech.com/sales@samwontech.com

http://www.samwontech.com

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