Paperless Recorder

Datasheet

SUP-R6000C

SUP-R6000C is featured with outstanding performance and easy operating Function along with high visibility Color LCD display,universal inputs with high speed of sampling rate and accuracy. Measured data is stored into memory and can be analyzed on PC trough communication.

Basic Functions
•Up to 48 channels of universal input
•UP to 18 Alarm Output Relays
•With 24V Power distribution Output
•Communication type: RS485, RS232C.
•With a USB data transfer interface

Display & Operation
•Multiple display Function ：choose the display your way
•Use date and time calendar search functions to Review historical data .
•7 inch high brightness color graphics and color LCD (800 * 480pixels)

Reliability and Security
•Dust- and splash-proof front panel
•Power Fail Safeguard:All the data stored in Flash memory,
make sure that all the historical data and configuration parameters
will not lost when power fail. Real time clock power supply by lithium batteries.

Data Acquisition Software
•Software for varieties of tasks : analysis, settings, and acquisition

Power supply
•Voltage range：AC 85 ~ 264 V (power supply of the switches), 50/60 Hz;
　　　　　　　DC12 ~ 36 V (power supply of the switches);

Normal operating condition
•Temperature ：-10 ~ 50°C Humidity ：10 ~ 90%%RH(without condensation of moisture)

Technical Specification
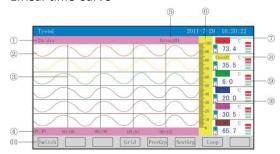
Input measurement

Input signal	Current: 0 ~ 20 mA, 0 ~ 10 mA, 4 ~ 20 mA, 0 ~ 10 mA SQRT, 4 ~ 20 Ma SQRT
	Voltage: 0 ~ 5 V, 1 ~ 5 V, 0 ~ 10 V, ±5 V, 0 ~ 5 V SQRT, 1 ~ 5 V SQRT, 0 ~ 20 mV, 0 ~ 100 mV, ±20 mV, ±100 mV
	Thermal resistance: Pt100, Cu50, Cu53, Cu100, BA1, BA2
	Linear resistance: 0 ~ 400 Ω
	Thermocouple: B, S, K, E, T, J, R, N, F2, Wre3-25, Wre5-26

Output

Output signal	Analog output:
	    4 ~ 20 mA (load resistance ≤ 380 Ω), 0 ~ 20 mA (load resistance ≤ 380 Ω),
	    0 ~ 10 mA (load resistance ≤ 760 Ω), 1 ~ 5 V (load resistance ≥250 KΩ),
	    0 ~ 5 V (load resistance ≥250 KΩ), 0 ~ 10 V (load resistance ≥10 KΩ)

	Alarm output: normally open relay contact output, where the contact capacity is 1 A/250 VAC (resistive load) (! Note: Please do not carry load directly in case the load exceeds the contact capacity of relay.)
	Feed output: DC24 V ± 10%, load current ≤ 200 mA
	Communication output: RS485/RS232 communication interface, 2,400 ~ 19,200 bps baud rate (able to be set); standard MODBUS RTU communication protocol is adopted; the communication distance of RS-485 can be as long as 1 kilometer; the communication distance of RS-232 can be as long as 15 m; EtherNet communication interface is adopted, where the communication speed is 10 M.

Comprehensive parameters

Measurement accuracy	0.2% FS ± 1d
Sampling period	1 s
Setting mode	The button is set in the form of panel soft touch; set values of parameters are locked with passwords and will be saved permanently in case of outage.
Display method	7-inch 800 * 480 dot-matrix widescreen TFT high brightness color graphics and LCD display; LED backlight; with clear pictures and wide visual angle. Display contents can be composed of characters, figures, conditional curves, bar graphs, etc.; through panel button, page turning, forward and backward search of historical data, time scale change of curves, etc. can be realized.
Data backup	Data backup and conversion storage of USB flash disk and SD card are support, where the maximum capacity is 32 GB; FAT and FAT32 formats are supported.
Storage capacity	The capacity of the internal Flash memory is 64 M Byte.
Recording interval	Nine options including 1, 2, 4, 6, 15, 30, 60, 120 and 240 s can be selected.

Display

1.Real-time Curve

2. Real-time control

3.Bar Graph

4.Digital Display

5.Historical Curve

6.Alarm List

7.File List

8.Menu for Printing

Storage Function

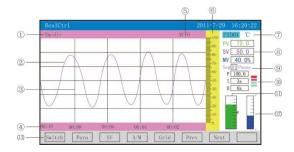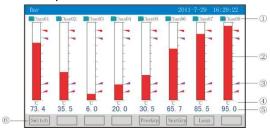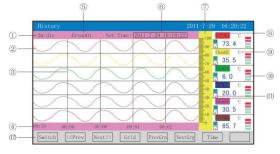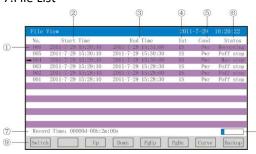| Data backup	Data backup and conversion storage of USB flash disk and SD card are support, where the maximum capacity is 32 GB; FAT and FAT32 formats are supported.
Storage capacity	The capacity of the internal Flash memory is 64 M Byte.
Recording interval	Nine options including 1, 2, 4, 6, 15, 30, 60, 120 and 240 s can be selected.
Storage length (continuous record without power-off)	6 days (1 s interval) – 23301 days (240 s interval) Calculation formula: recorded time (day) $$= \frac{64 * 1{,}024 * 1{,}024 * \text{recording interval (S)}}{\text{channel number} * 2 * 24 * 3{,}600}$$ (! Note: For calculation of channel number, the program divides the channel number into five options, namely 4, 8, 16, 32 and 64, and the bigger figure should be regarded as the channel number for calculation in case the channel number of the instrument is between the said two options. For example: If the channel number of the instrument is 12, then 16 should be adopted in the formula.)

Alarm Output Function

Max 18 channel alarm output, normally open relay contact output, where the contact capacity is 1 A/250 VAC (resistive load)

  (! Note: Please do not carry load directly in case the load exceeds the contact capacity of relay.)

Communication Function

RS485/RS232 communication interface, 1,200 ~ 57,600 bps baud rate (able to be set); standard MODBUS RTU communication protocol is adopted;

Ordering code

SUP-R6000C-01-1A-00-02-R1-0-E0			Description
SUP-R6000C	- - - - - - - - - - - -		
Input Channel	01		1
	02		2
	04		4
	06		6
	08		8
	10		10
	12		12
	16		16
	20		20
	24		24
	28		28
	32		32
	36		36
	40		40
	44		44
	48		48
	XX		Other
Transmitter Output		00	None
		1A	1 Channel 4-20mA
		2A	2 Channels 4-20mA
		4A	4 Channels 4-20mA
		6A	6 Channels 4-20mA
		8A	8 Channels 4-20mA
		AA	10 Channels 4-20mA
		BA	12 Channels 4-20mA
		XX	Other
PID		00	None
		1A	1 Channel 4-20mA
		2A	2 Channels 4-20mA
		4A	4 Channels 4-20mA
		6A	6 Channels 4-20mA
		8A	8 Channels 4-20mA
		2S	2 Channels Relay
		4S	4 Channels Relay
		6S	6 Channels Relay
		8S	8 Channels Relay

						Other
PID	XX					
	00					None
	01					1 Channel
	02					2 Channels
	04					4 Channels
	06					6 Channels
SPST Relay Output	08					8 Channels
	10					10 Channels
	12					12 Channels
	14					14 Channels
	16					16 Channels
	18					18 Channels
	XX					Other
		00				None
		R1				RS485
		R2				RS232
		R4				RS232 + Printer
Communication Output		Y0				Ethernet
		Y1				RS485+Ethernet
		Y2				RS232+Ethernet
		Y4				RS232+Printer+Ethernet
			0			None
Operational Function			C			Temperature-Pressure Compensation + Flow Accumulation
				E1		220VAC，1 Channel 24VDC
Power Supply and Distribution Output				E0		220VAC，None
				C1		24VDC，1 Channel 24VDC
				C0		24VDC，None

Note:

1. Isolated Universal Input, 185mm×154mm, 16GB USB Disk

2. Selecting PID function, flow accumulation, or temperature-pressure compensation allows for a maximum of 24 channels

3. PID + Transmitter Output + Relay Output ≤ 18 Channels

China	Singapore	Germany	Malaysia
China Headquarters	Singapore Branch	German Branch	Malaysia Branch
Address: 5th floor, Building 4, Singapore-Hangzhou Science & Technology Park, Hangzhou, China	Address: 2 Venture Drive #11-30 Vision Exchange Singapore	Address: Göttinger Straße.59 30449 Hannover Niedersachsen Deutschland	Address: No 3, Jalan Emas Jaya 1, Taman Industries Emas jaya Tongkang Pecah , Batu Pahat