



Paperless Recorder

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 $85 \sim 264$ V (power supply of the switches), 50/60 Hz; DC12 ~ 36 V (power supply of the switches);

Normal operating condition

•Temperature : $-10 \sim 50$ °C Humidity : $10 \sim 90\%$ RH(without condensation of moisture)

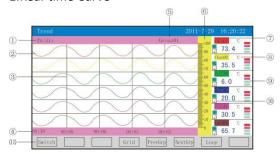


Technical Specification

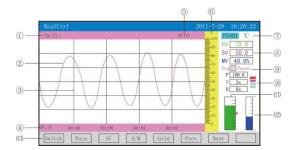
Input measureme	ent							
Input signal	Current: $0 \sim 20$ mA, $0 \sim 10$ mA, $4 \sim 20$ mA, $0 \sim 10$ mA SQRT, $4 \sim 20$ Ma SQR Voltage: $0 \sim 5$ V, $1 \sim 5$ V, $0 \sim 10$ V, ± 5 V, $0 \sim 5$ V SQRT, $1 \sim 5$ V SQRT, $0 \sim 20$ $0 \sim 100$ mV, ± 20 mV, ± 100 mV Thermal resistance: Pt100, Cu50, Cu53, Cu100, BA1, BA2 Linear resistance: $0 \sim 400$ Ω Thermocouple: B, S, K, E, T, J, R, N, F2, Wre3-25, Wre5-26							
Output								
Output signal	Analog output: $4 \sim 20 \text{ mA}$ (load resistance $\leq 380 \Omega$), $0 \sim 20 \text{ mA}$ (load resistance $\leq 380 \Omega$), $0 \sim 10 \text{ mA}$ (load resistance $\leq 760 \Omega$), $1 \sim 5 \text{ V}$ (load resistance $\geq 250 \text{ K}\Omega$), $0 \sim 5 \text{ V}$ (load resistance $\geq 250 \text{ K}\Omega$), $0 \sim 10 \text{ V}$ (load resistance $\geq 10 \text{ K}\Omega$) Alarm output: normally open relay contact output, where the contact capacity is $1 \text{ A}/250 \text{ VAC}$ (resistive load) (! Note: Please do not carry load directly in case the load exceeds the contact capacity of relay.) Feed output: DC24 V ± 1 , load current $\leq 250 \text{ mA}$ Communication output: RS485/RS232 communication interface, $1,200 \sim 57,600 \text{ bps}$ 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 1 min EtherNet communication interface is adopted, where the communication speed is 10 M .							
Comprehensive p	arameters							
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 a 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 graph and LCD display; LED backlight; with clear pictures and wide visual angle. Display contents can be composed of characters, figures, conditional curv bar graphs, etc.; through panel button, page turning, forward and backw 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 8 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

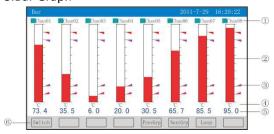
1.Real-time Curve



2. Real-time control



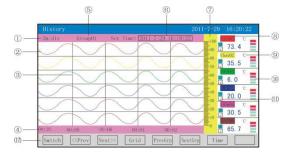
3.Bar Graph



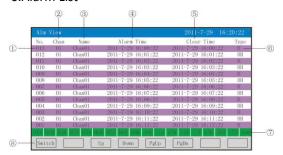
4. Digital Display



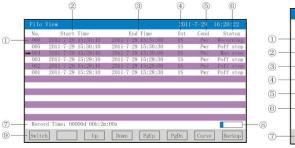
5. Historical Curve



6.Alarm List



7.File List



8.Menu for Printing



Data backup	Data backup and conversion storage of USB flash disk and SD card are							
	support, where the maximum capacity is 8 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	24 days (1 s interval) – 5825 days (240 s interval)							
(continuous record	Calculation formula: recorded time (day)							
without	64 * 1,024 * 1,024 * recording interval (S)							
power-off)	= 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 c case the channel number of the instrument is between the								
	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 $^{\sim}$ 57,600 bps baud rate (able to be set); standard MODBUS RTU communication protocol is adopted;

Ordering code

SUP-R6000C Paperless recorder										
Model	Form								Specification	
SUP-R	60	_C		_		_			No.	
		2							2 channel input	
		4							4 channel input	
		:							:	
		48							48 channel input	
Alarm			0						None	
			2						2 channel alarm output	
output			4						4 channel alarm output	
_I			:						:	
			18						18 channel alarm output	
Commun				Т0					None	
ication				T1					RS-232	
				T2					RS-485	
Power					P0				None	
distribution					P1				1 channel	
Analog output						A0			None	
						A1			1 channel analog output	
						A2			2 channel analog output	
						A4			4 channel analog output	
USB connection							0		None	
							1		Yes	
Power								A	AC85∼264V	
supply								D	DC12~36V	

Note:Total number of analog output and alarm output channels is less than 18

