





**Paperless Recorder** 

# Datasheet

R6000C

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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 :  $-10 \sim 50^{\circ}$ C Humidity :  $10 \sim 90\%$  RH(without condensation of moisture)



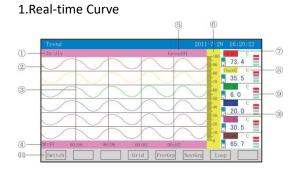
## **Technical Specification**

Input measurem	ient								
	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,								
Input signal	0 ~ 100 mV, ±20 mV, ±100 mV								
input signai	Thermal resistance: Pt100, Cu50, Cu53, Cu100, BA1, BA2								
	Linear resistance: 0 ~ 400 $\Omega$								
	Thermocouple: B, S, K, E, T, J, R, N, F2, Wre3-25, Wre5-26								
Output									
	Analog output:								
	4 ~ 20 mA (load resistance $\leq$ 380 $\Omega$ ), 0 ~ 20 mA (load resistance $\leq$ 380 $\Omega$ ),								
	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)								
Output signal	(! Note: Please do not carry load directly in case the load exceeds the								
	contact capacity of relay.)								
	Feed output: DC24 V ± 1, load current ≤ 250 mA								
	Communication output: RS485/RS232 communication interface, 1,200 ~								
	57,600 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.								

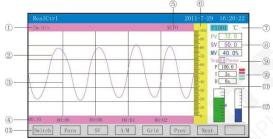
#### 0.2% FS ± 1d Measurement accuracy 1 s Sampling period The button is set in the form of panel soft touch; set values of parameters are Setting mode locked with passwords and will be saved permanently in case of outage. 7-inch 800 \* 480 dot-matrix widescreen TFT high brightness color graphics and LCD display; LED backlight; with clear pictures and wide visual angle. Display method 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 and conversion storage of USB flash disk and SD card are Data backup support, where the maximum capacity is 8 GB; FAT and FAT32 formats are supported. The capacity of the internal Flash memory is 64 M Byte. Storage capacity Nine options including 1, 2, 4, 6, 15, 30, 60, 120 and 240 s can be selected. **Recording interval**



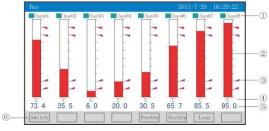
# Display



#### 2. Real-time control

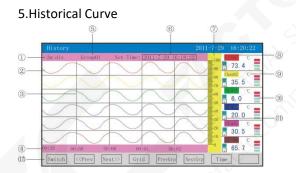






4. Digital Display

6.0	00 0
0. 0 =	20.0
Chan07	Chan08
85. 5	95. 0
Chan11	Chan12
70.5	15.3
	Chan07 85.5 Chan11

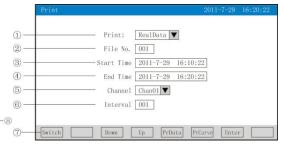




# 7.File List

File	View				2011	-7-29	16:20:22
No.	Start		End	Time	Int	Cond	Status
- 006	2011-7-29	15:30:40	2011-7-29	15:31:00	18	Pwr	Recordin
005	2011-7-29	15:30:10	2011-7-29	15:30:30	15	Pwr	Poff sto
+004	2011-7-29	15:29:40	2011-7-29	15:30:00	15	Pwr	Man stu
003	2011-7-29		2011-7-29	15:29:30	1S	Pwr	Poff sto
002	2011-7-29				18	Pwr	Poff ste
001	2011-7-29	15:28:10	2011-7-29	15:28:30	15	Pwr	Poff sta
-	$\cap$				_	_	
-							
-							

8.Menu for Printing





# **Storage Function**

Data backup	Data backup and conversion storage of USB flash disk and SD card are						
Data backup	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 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-R	21 <b>-</b> 0-	-E0								
SUP-R6000C -	-	-	-	-		-	-	-		-	-	Description
01												1
02	2											2
04												4
06	;											6
80	5											8
10	)											10
12	2											12
16	;											16
Input Channel 20	)											20
24												24
28	5											28
32	2										S	32
36	;											36
40	)										5	40
44									, ch		S	44
48	5								X			48
XX	(							2 <sup>Q</sup>				Other
	00											None
	1A					1						1 Channel 4-20mA
	2A					K.						2 Channels 4-20mA
	4A				0							4 Channels 4-20mA
Transmitter Outpu	it 6A											6 Channels 4-20mA
	8A					9						8 Channels 4-20mA
	AA				SP							10 Channels 4-20mA
	BA											12 Channels 4-20mA
	XX											Other
		00										None
		1A										1 Channel 4-20mA
		2A										2 Channels 4-20mA
		4A										4 Channels 4-20mA
		6A										6 Channels 4-20mA
PID		8A										8 Channels 4-20mA
		2S										2 Channels Relay
		4S										4 Channels Relay
		6S										6 Channels Relay
		8S										8 Channels Relay



PID 2	XX		Other
	00		None
	01		1 Channel
	02		2 Channels
	04		4 Channels
	06		6 Channels
ODOT Dalan Outrat	08		8 Channels
SPST Relay Output	10		10 Channels
	12		12 Channels
	14		14 Channels
	16		16 Channels
	18		18 Channels
	XX		Other
	00		None
	R1		RS485
	R2		RS232
O	R4		RS232 + Printer
Communication Outpu	IT YO		Ethernet
	Y1		RS485+Ethernet
	Y2		RS232+Ethernet
	Y4		RS232+Printer+Ethernet
	(		None
Operational Function			Temperature-Pressure
Operational Function	C C		Compensation + Flow
			Accumulation
		E1	220VAC, 1 Channel 24VD0
Dowor Supply and Distrib	ution Output	E0	220VAC, None
Power Supply and Distrib		C1	24VDC,1 Channel 24VDC
		CO	24VDC, None

Note:

1. Isolated Universal Input,  $185 \text{mm} \times 154 \text{mm}$ , 16 GB 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