

# Paperless recorder

Committed to process automation solutions

## Data Sheet



**SUP-R6000F**

SUP-R6000F integrates many functions such as data measurement, display, processing, computing, alarm and recording in various industrial occasions, with 36 analog signal input channels, 8 relay alarm output, 150mA distribution output, two RS-485 communication interface, and a USB data dump interface.

The product is integrated with high speed and high performance 32 bit ARM9 microprocessor. The circuit board is coated with "anti-corrosion, moisture-proof, dust-proof". High-performance instrument power has strong anti-interference ability, and can effectively suppress external harmonic interference, greatly improving the stability of the whole machine.

This product can be used in metallurgy, petroleum, chemical, building materials, paper making, electricity, food, pharmaceutical, industrial water treatment and other industries.

## Features

- 36 universal input channels
- 7 inch TFT true color LCD display
- 8 relay alarm output
- 4 display types: Bar graph, curve, digital display

## Parameter

- Display: 7 inch TFT true color LCD display
- Dimension : Outer dimension: 193mm \* 162mm \* 144mm  
Hole dimension: 138.5mm \* 138.5mm
- Thickness of installation panel : 1.5mm~16.0mm
- Weight: 1.06kg
- Power supply: (176~264)V AC, 47~63Hz
- Internal storage: 128M bytes Flash
- Maximum power consumption: 30VA , 15W
- Relative humidity: (10~85)%RH (no moisture condensation)
- Working temperature: (0~50)°C
- Storage condition: Temperature (-20~60)°C, relative humidity (5~95)%RH (no moisture condensation)

## Input signal

DC voltage / current input	
Type	Maximum allowable error (%FS)
(1~5) V	±0.1

(0~10) V			
(0~5) V			
(0~100) mV			
(4~20) mA			
(0~20) mA			±0.2
(0~10) mA			
(-20~20) mV			±0.25
(0~20) mV			
<b>Thermocouple Input (excl. cold junction error)</b>			
Type	Range (°C)	Maximum allowable error (°C)	
B	600 ~ 1800	±2.4	
E	-200 ~ 1000	±2.4	
J	-200 ~ 1200	±2.4	
K	-200 ~ -100	±3.3	
	-100 ~ 1300	±2.0	
S	-50 ~ 100	±3.7	
	100 ~ 300	±2.0	
	300 ~ 1600	±1.5	
T	-200 ~ -100	±1.9	
	-100 ~ 380	±1.6	
R	-50 ~ 100	±3.7	
	100 ~ 300	±2.0	
	300 ~ 1600	±1.5	
N	-200 ~ 1300	±3.0	
<b>Thermal resistance Input</b>			
Type	Range (°C)	Maximum allowable error (°C)	
Cu50	-50 ~ 140	±1.0	
Pt100	-200 ~ 800	±1.0	
Note: Special types of thermal resistances can be customized, such as Pt1000, etc.			

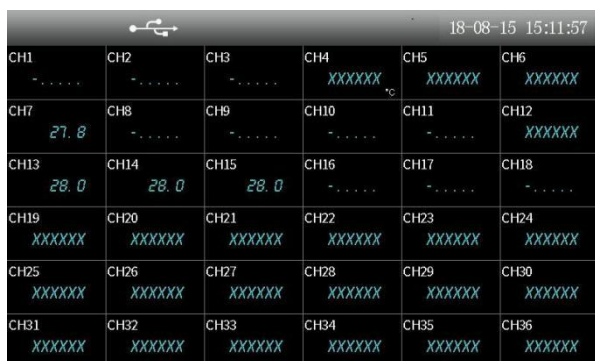
## Output signal

Alarm output				
Type	Range	Contact type	Contact capacity	Response cycle
Alarm output	0/1	Often-used contact	2A /250VAC	1s

## Other parameters

Fuse specification	3.15 A/250V AC, slowly-fused type.
Power Distribution	24V DC, 150mA max
Power-off protection	All data is stored in flash memory to ensure that all historical data and configuration parameters are not lost due to power failure. The real time clock is powered by internal battery after power failure.
Alarm output	Up to 8 channels. The relay is the normally opened contactor, with the contactor capacity of 2A /250VAC (resistive load).
Communication interface	2-way RS-485 communication interface
Communication protocol	Adopting Modbus communication protocol
Sampling period	1s

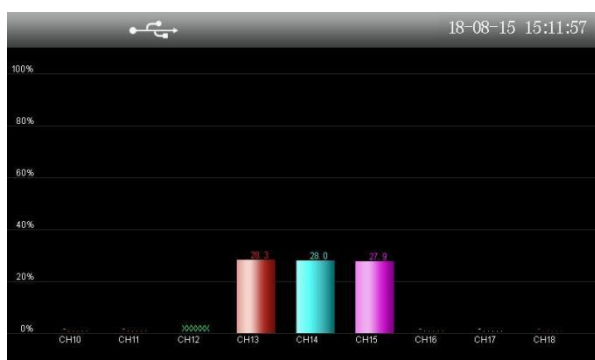
## Display



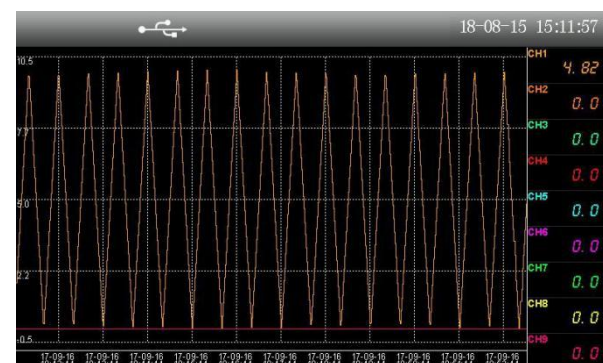
Overview



Digital display



Bar graph



Real time curve

## Ordering code

SUP-R6000F-01-00-1A-00-02-R1-0-E0													Description		
SUP-R6000F	-	-	-	-	-	-	-	-	-	-	-	-	-		
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	
	XX														Other
	Communication Input		00												RS485
		R1												None	
			00											None	
Transmitter Output			1A											1 Channel 4-20mA	
			2A											2 Channels 4-20mA	
			4A											4 Channels 4-20mA	
			XX											Other	
				00											None
PID			1A											1 Channel 4-20mA	
			2A											2 Channels 4-20mA	
			4A											4 Channels 4-20mA	
				00											None
SPST Relay Output				00										None	
				01										1 Channel	
				02										2 Channels	
				04										4 Channels	
				06										6 Channels	
				08										8 Channels	
				10										10 Channels	
				12										12 Channels	
				14										14 Channels	
				XX											Other
Communication Output													00	None	

Communication Output	R1							RS485
Operational Function	0							None
	B							Flow Accumulation
	C							Temperature-Pressure Compensation + Flow Accumulation
Power Supply and Distribution Output	E1							220VAC, 1 Channel 24VDC
	E0							220VAC, None

**Note:**

1. Universal Input, 150mm×150mm, 16GB USB Disk
2. With transmitter output, a maximum of 27 channels can be configured;  
When the relay output is greater than 8, a maximum of 27 channels can be configured;  
With communication input, a maximum of 27 channels can be configured;
3. PID + Transmitter Output ≤ 4 Channels