Datasheet

Paperless Recorder

SUP-R4000D

Supmea®

Committed to process automation solutions

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Datasheet

Paperless Recorder
SUP-R4000D

The instrument displays measurement/arithmetic data previously recorded on logging paper on the LCD screen and can also be saved on external storage media (additional specifications).The display data is the data shown in the curve and digital display on the instrument screen.It is selected by the instrument from the sampled data.A data is equivalent to a point on the curve screen, and the time represented by a data is determined by the recording interval of the instrument.The displayed data is equivalent to the original recording paper, which is suitable for long time observation.

Applications

- Pharmaceutic
- Power system
- Industrial production area
- Food processing

Paperless Recorder

Features

- High reliability and stability
- Large internal memory for long term storage of large amounts of data
- Easy to operate with intuitive LCD display
- Support touch operation, convenient to set parameters, query historical data
- Multiple data transfer interfaces

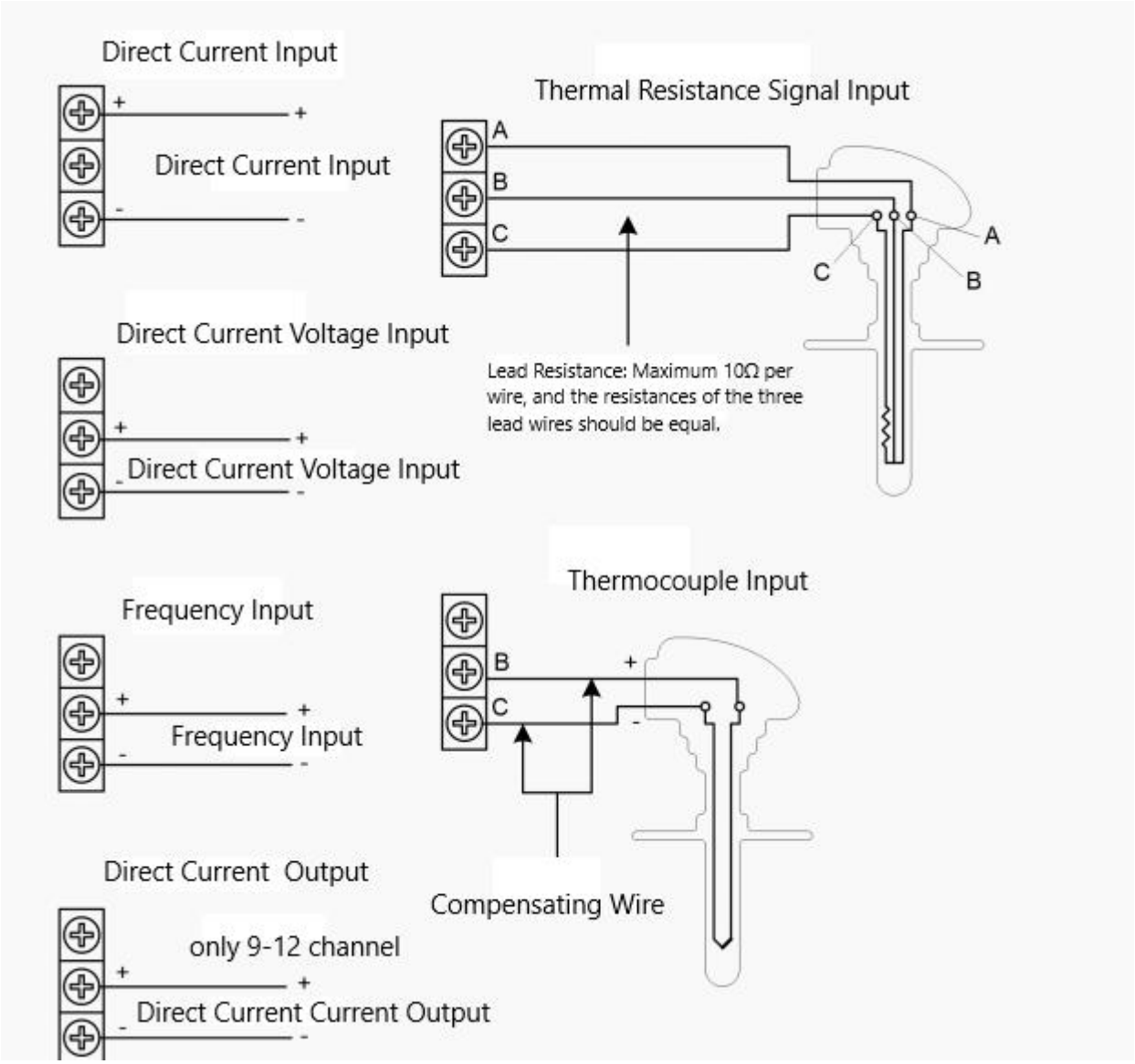
Principle

The R4000D paperless recorder functions based on a series of procedures. Firstly, it is equipped with multiple sensors to collect various physical signals like temperature, pressure, flow, etc. These analog signals are then converted into digital ones through the analog-to-digital conversion module. Next, the microprocessor processes these digital data in real time according to preset programs, calculating relevant parameters and performing necessary compensations, such as temperature and pressure compensation for flow measurement. After that, the processed data is stored in its large-capacity memory. Finally, it can display the data on the LCD screen in real time and transmit the data to other devices through interfaces like USB or RS232 for further use.

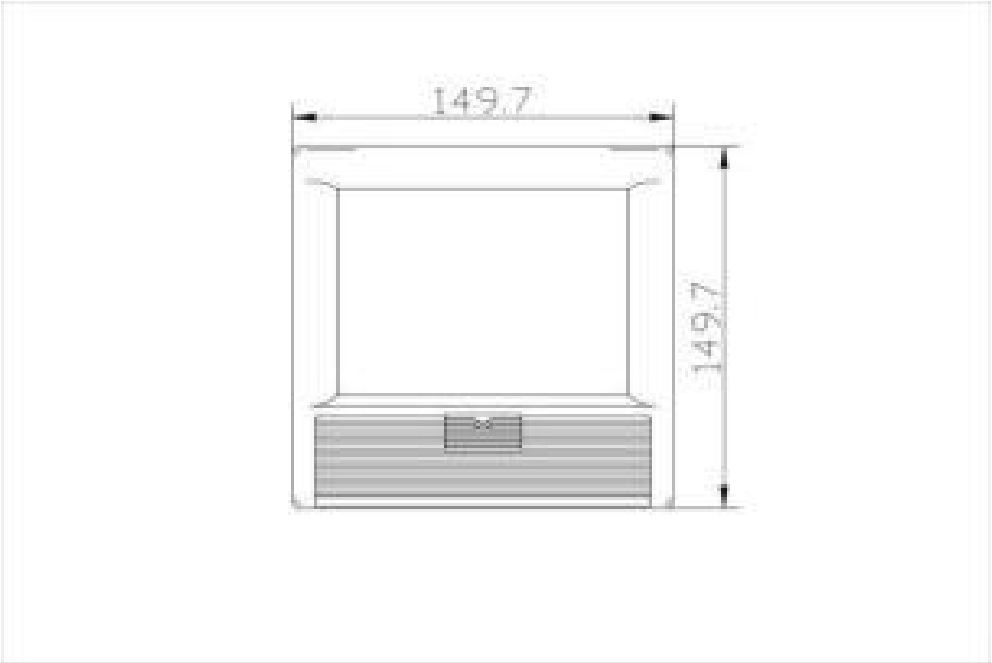
Parameters	
Current	(0~20) mA, (4~20) mA, (0~ 10) mA
Voltage	(0~5) V, (1~5) V, (0~ 10) V, 20 mV, 100 mV
Resistance	400 Ω, 175 Ω
Frequency	Fr, Fr.
Thermal Resistance	PT100, PT100., Cu50, Cu53, BA1, BA2
Thermocouple	S, R, B, K, N, E, J, T, WRE5-26, WRE3-25, F1, F2
Ordinary Vacuum	20 mA, 5 V, 10 V
Segmented Vacuum	20 mA, 5 V, 10 V

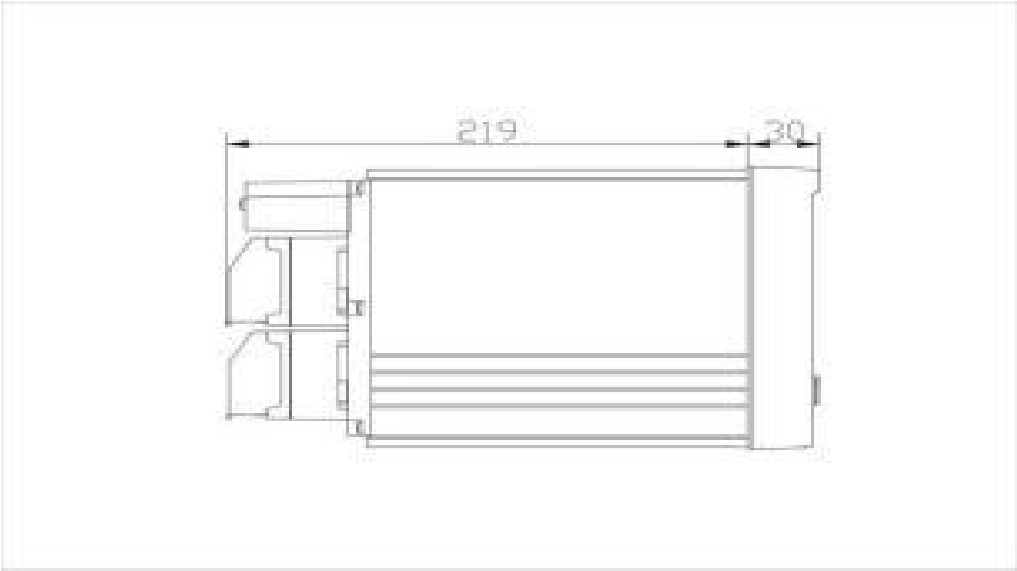
Wiring

Connecting the measuring input/output signal lines



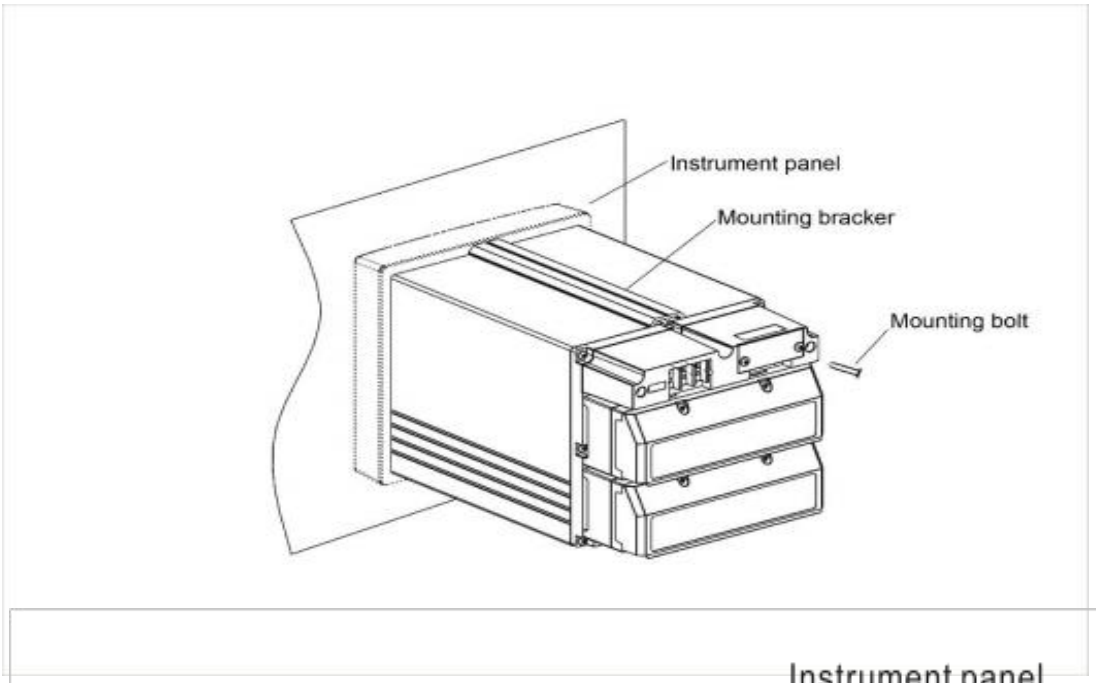
Dimension

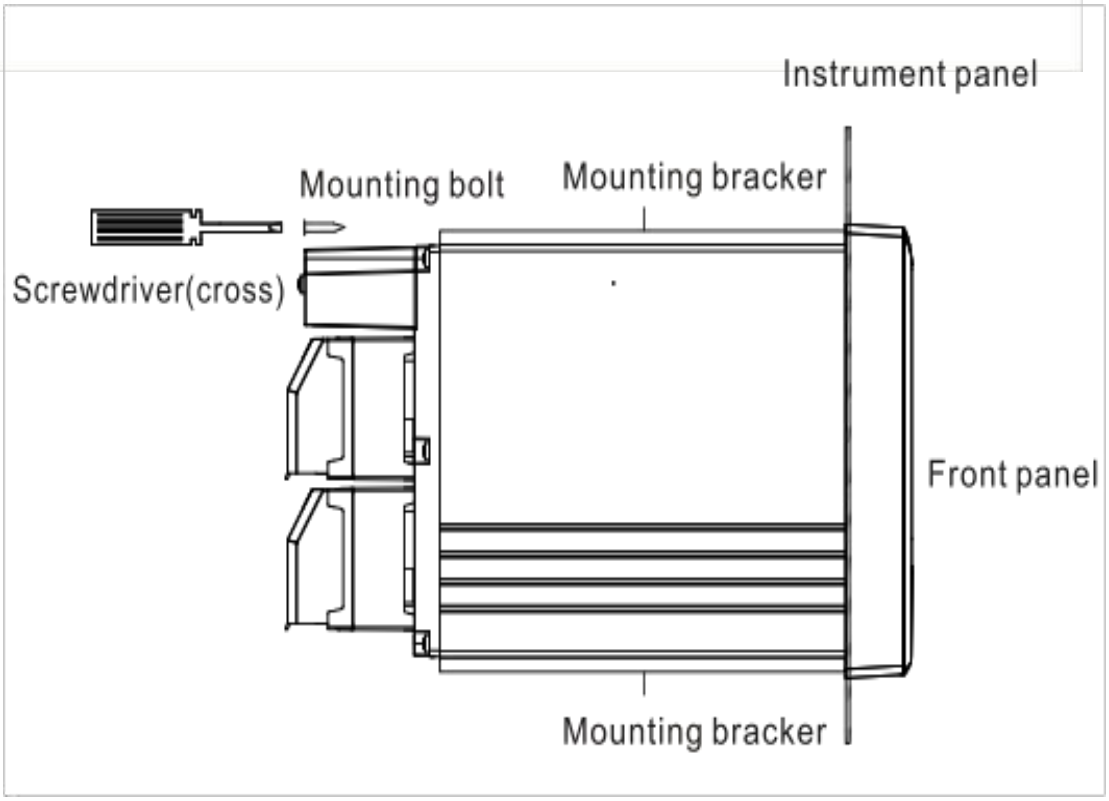




Installation

Installation





Ordering code

SUP-R4000D -01-00-00-00-00-0-E1-XX									Description
SUP-R4000D	-	-	-	-	-	-	-	-	
Input Channel	01								1
	02								2
	03								3
	04								4
	06								6
	08								8
	10								10
	12								12
	14								14
	16								16
	XX								other
Converter Output		00							None
		1A							1-channel-20mA
		2A							2-channel-20mA
		4A							4-channel-20mA
		XX							other
PID			00						None
			1A						1-channel-20mA
			2A						2-channel-20mA
			4A						4-channel-20mA
			XX						other
SPST Relay Output				00					None
				01					1-channel
				02					2-channel
				04					4-channel
				06					6-channel
				08					8-channel
				10					10-channel
				12					12-channel
				XX					other
Communication Output					00				None
					R1				RS485
					R2				RS232
					R3				RS232print interface
					Y0				Ethernet
					Y1				RS485+Ethernet
					Y2				RS232+Ethernet
					Y3				Ethernet+RS232print interface
					Y5				2-channelRS485
					XX				other

Computational Function	0	None
	B	Flow accumulation
	C	Temperature and Pressure Compensation + Flow Accumulation
Power Supply and Output	E1	220VAC，1-channel24VDC
	E0	220VAC，无
	E2	220VAC，2-channel24VDC
	E4	220VAC，4-channel24VDC
	C1	24VDC，1-channel24VDC
	C0	24VDC，None
	C2	24VDC，2-channel24VDC
	C4	24VDC，4-channel24VDC
Functional customisation	XX	other