SR500SE UNIVERSAL DIGITAL TOUCH SCREEN

Color Paperless Recorder

2-4-6 Channels, 7inch LCD TFT

General Specifications

■ Overview

SR5000SE is touch screen universal color paperless recorder, Max. 6 channels, high accuracy, universal use, easy operation, to be aimed to display, measurement the processes parameters such as temperature, humidity, pressure, flow, vibration etc in various industrial application.

MPR5000SE
7'' color LCD, Touch Screen
Universal Color Paperless Recorder
Installation: 138x138mm, Max.6 channels

■ Feature

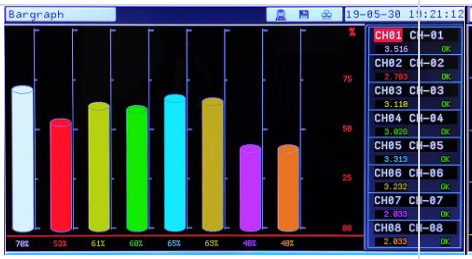
- **High accuracy: +-(0.2%FS +1) digit, 7''TFT LCD Touch Screen**
- **Programmable universal input: T.C., RTD, mA, VDC, mV**
- **Input channels no.: 2,4, 6 channels, optional**
- Built in thermocouple automatic cold junction compensation
- **Output: Max. 2 relay ,NO+NC,NO**
- **RS485 communication port, standard MODBUS-RTU protocol, Ethernet TCP/IP configurable with HMI, SCADA, OPC serve etc.**
- **Flow totalizes with temperature, pressure compensation**
- **Match Function: +, -, x, /, average, max, mini**
- **Powerful** Various curve, barograph, digit for different type display
- **Strong PC software to display data in digital curve, Print and export to excel for further analysis**
- Wide power supply: 100-240VAC; 24VDC

Memory Flash Data Saving, Various Screen Display, Easy operation

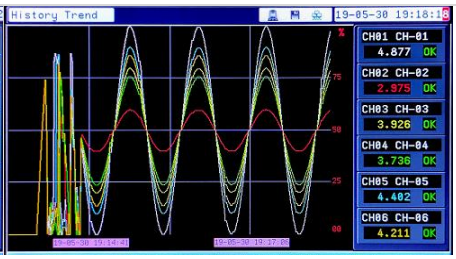
Digital Display 2 channels/screen

Digital Display4 Channels/screen

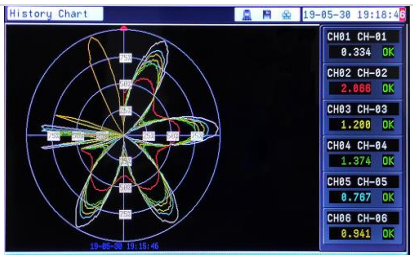
Digital Display 6 Channels/screen



Digital &Barograph Display



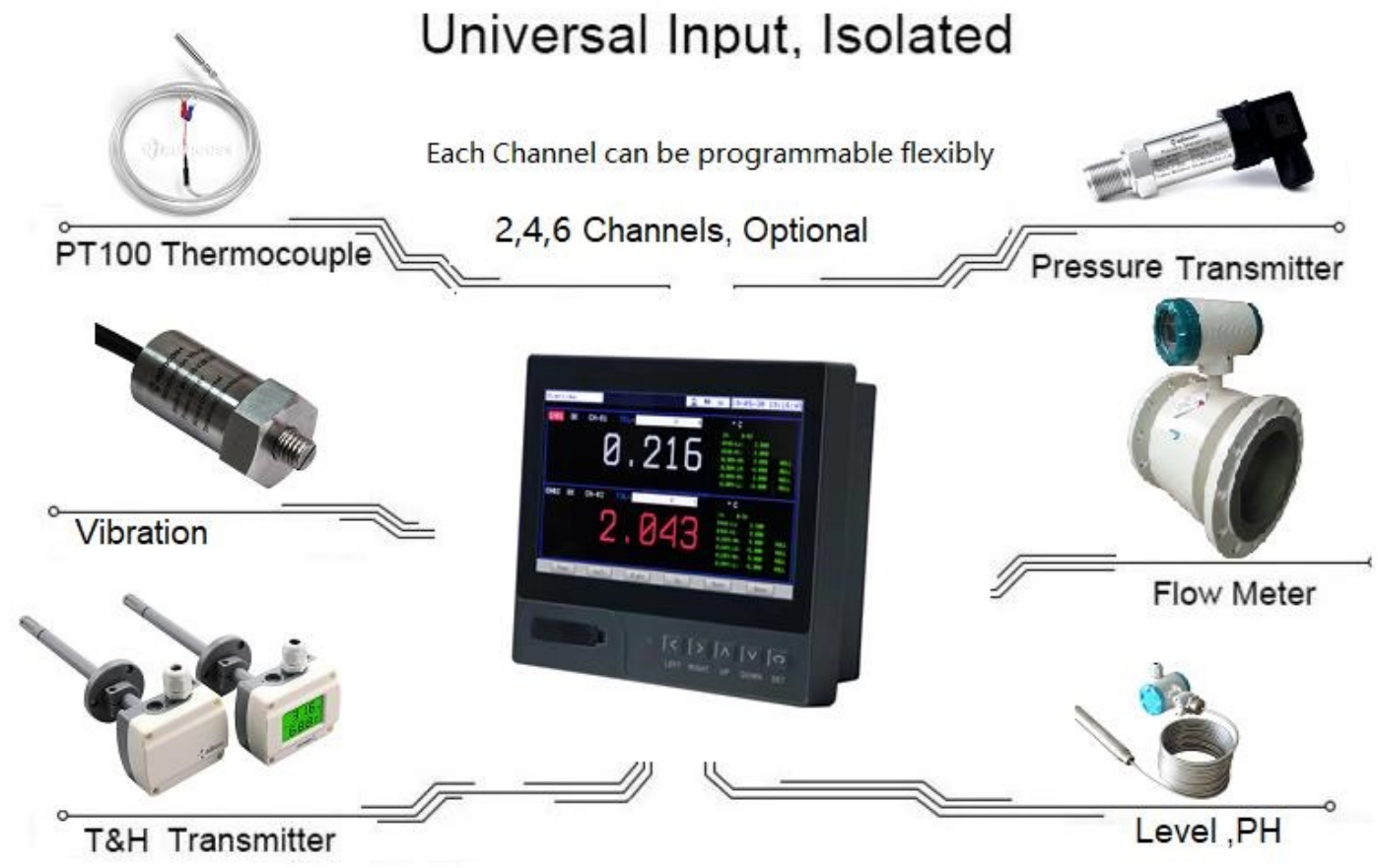
Digital &Curve Display



Digital &Circular Chart Display

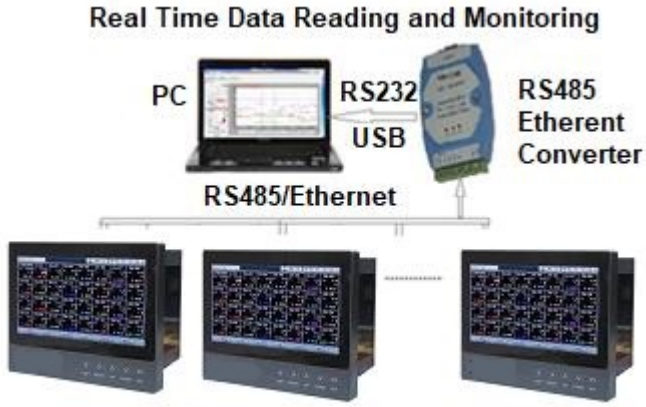
Memory Flash Drive Data Saving

Provides flexibility and variety in the handing of record data

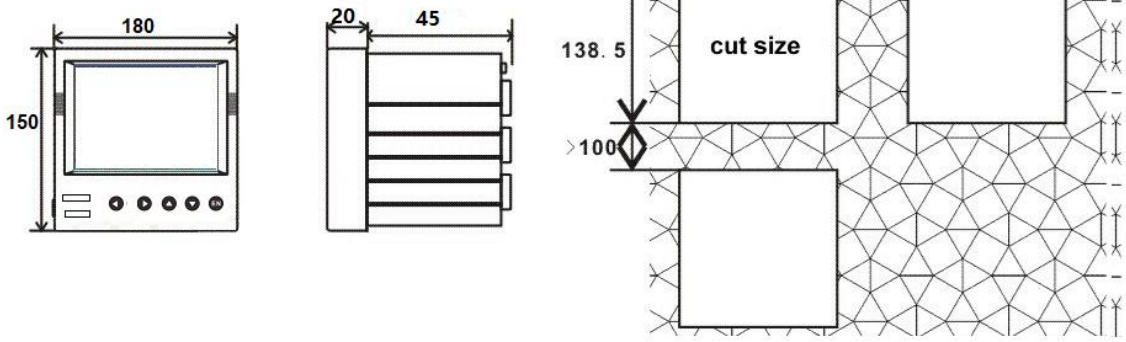


***Each channel is universal input: Thermocouple, RTD, Analog, MV signals, programable, can be configurated with various sensor and transmitter in a recorder for different values reading and memory in industrial application.**

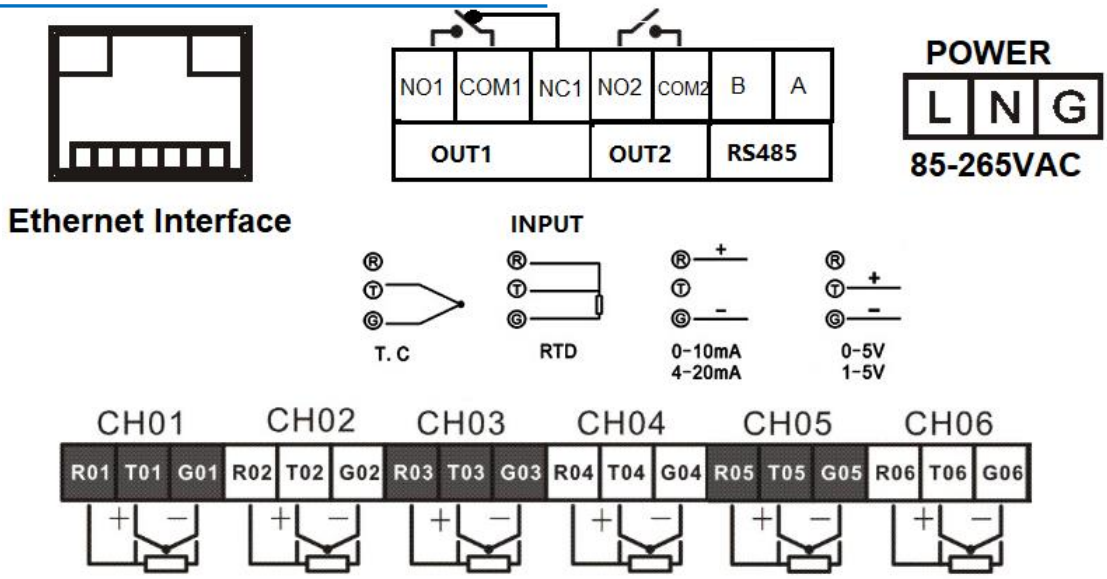
*** Advanced and powerful touch screen designed: easy and user-friendly screen operation configuration.**

USB Pen Driver for Data Transfer Paly and Plug, Fast and Easy	Configuration with SCADA, PLC, HMI, OP sever, IOT, CLOUND page flexibly
	
Free 8GB USB pen driver and PC software for data transferring to PC automatically , plug and play, easy to operation, data transferred automatically within some minutes when u need to transfer data and insert pen driver	**Standard RS485/Ethernet MODBUS protocol, configurable with SCADA, DCS, PLC, HMI, OPC server , IOT, Cloud for real time reading and monitoring in control room remotely, Baud rate: 9600 default,4800,19200; reading and writing functions**

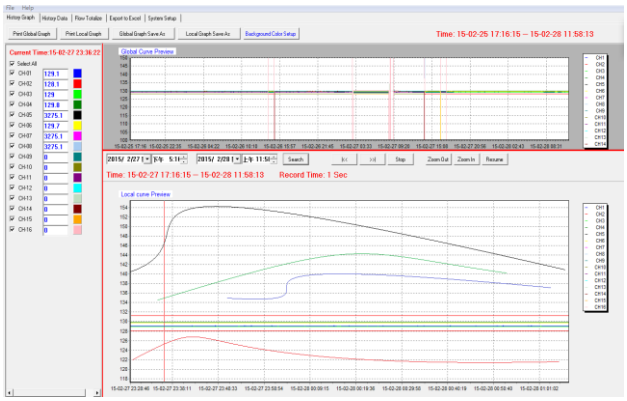
Dimension (mm)



Diagram



PC Software



PC Software for USB Data Transferring, standard default
Used for history data checking and further analysis

. History Data will be displayed in digit and trend

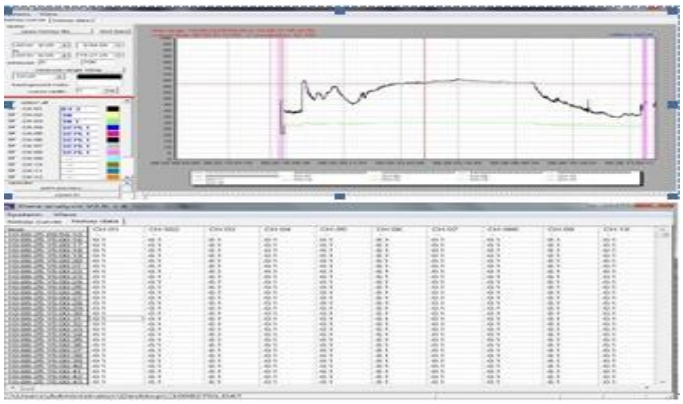
. History Data can be exporting the data as Excel for further analys

. History Data can be printed in the curve by printer directly

. Flow Totalizer data display in shifty, weekly, monthly

Suitable for PC Version: Window 2000/XP, VISTA, Win7, 8, 10

Installation: Please copy our software in your PC directly



DCS Software for RS485, Ethernet Communication
Optional, Used for real time mornitoring&reading
while memory automatically

. Data in will be displayed in digit and curve

. History Data can be exporting the data as excel for further analysis

. History Data can be printed in the curve by printer directly

Suitable for PC Version: Window 2000/XP, VISTA, Win7, 8, 10

Installation: Please copy our software to your PC directly

Specification

Input		Input Type		Measured Range	Input Independence
Input No.	2,4,6, optional	**RTD**	**Pt100**	-200 to 600℃	>20MΩ
Thermocouple Input	K, J, T, E, R, S, B, N, Wre526, Wre325		**CU50**	-50 to150℃	>20MΩ
RTD Input	Pt100, CU50, CU100		**CU100**	-50 to150℃	>20MΩ
Analog Input	4-20mA, 0-10mA, 0-5V, 1-5V, 0-10VDC	**T.C**	**K**	-50 to 1300℃	>20MΩ
mV Input	0－20mV,0-60mV, 0-100mV, 0-500mV		**J**	0 to 1000℃	>20MΩ
Isolation	photoelectric isolation		**T**	-200 to 350℃	>20MΩ
Accuracy	± (0.2%FS +1) digit		**E**	0 to 800℃	>20MΩ
Resolution	0.1℃ when temperature input		**R**	-50 to 1700℃	> 20MΩ
Sample time	1 second per 6 channels		**S**	-50 to 1700℃	> 20MΩ
Decimal No.	0-4 programmable; 1 when temperature		**B**	300 to 1800℃	>20MΩ
T.C. cold compensation	Built- in auto. Compensation		**N**	0 to 1300℃	>20MΩ
Compensation Tolerance	Max.±1℃		**Wre526**	0-2300℃	>20MΩ
Channel-GND Isolation	1000VAC		**Wre325**	0-2300℃	>20MΩ
Channels 'Isolation	400VAC	**Analog**	**4-20mA**	-20000 to 20000	250 Ω
Temperature shift	50PPM		**0-10mA**	-20000 to 20000	500Ω
CMR Ratio	85-110dB		**0-5VDC**	-20000 to 20000	500KΩ
T.C. wire resistor	Less than 1000Ω		**1-5VDC**	-20000 to 20000	500KΩ
RTD wire resistor	max1000Ω per wire, should same each wire		**0-10VDC**	-20000 to 20000	500KΩ
Inner CPU	32bits ARM CPU, high performance	**mV**	**0-60mV**	-20000 to 20000	>20MΩ
Hardware watchdog	CPU inner integration for long-term stability		**0-100mV**	-20000 to 20000	>20MΩ

Memory		Display	
Memory Capacity	45days x Record Interval Time/CH numbers	**LCD Size**	7" color TFT LCD, touch screen
Record interval time	1-3600seconds, programmable by key	**LCD Resolution**	640x480 TFT color LCD
CH Numbers	2,4,6, ordered total channel 'no.s	**Interval time**	1-3600 seconds, set flexibly
Memory type	Flash memory	**Data Display Type**	Digit, curve, barograph, chart;
Data transfer Media	8GB USB pen driver; 16G, 32G optional	**Background**	50,000hours **(**lifespan)
Transferred data file	8MB in recorder	**Screensaver**	0-30,000second, set flexibly
Data File Name	Year/month/Day/Address.dat: 19031801.dat	**Engineer unit**	℃, %, psi,bar,m3/hr, ppm….. programmable
Full capacity memory	earliest data replaced by newest data	**Resolution**	32 Bit AD inner, final resolution:16 bit
Data Format	Binary format or cannot read or write	**Display**	5 digits; Flow totalize:11 digits

Outputs (Option)		Others	
Relay	Max. 2 outputs, programable	**Power Supply**	100-240VAC, 47-63Hz; 24VDC
Communication	RS485 Standard MODBUS-RTU	**Consumption**	Maximum 25VA (25W)
	Ethernet standard MODBUS-TCP/IP	**Insulation**	Power to ground (housing) > 1500VAC
Flow Totalize	With temperature pressure compensation	**Case material**	Metal for case and bezel, acrylic panel (ip20)
Math	+, -, x, /, mini, max, average	**Mounting**	Panel flush mounting
		Size/Install/N.W.	180X150X45mm/138X138mm/1.0KG
		Working Ambient	T: 0-50 deg CH: 10%-85 % (No dew)

Output Specification (Option)

Relay Output		Flow Totalize	
Output No.	Max. 2 outputs	**Display Type**	Flow rate, Flow totalize, batch totalize
Relay type	NO+NC, NO; 220VAC/30VDC/3A	**Flow rate**	-20000 to 20000, 5 digits
Output type	programmable, Individual output per channel or Common output for all channel,	**Flow Totalize**	0.0 to 2000000000.0, 11digits
Alarming type	HA, HHA, LA, LLA, DIFF. per channel	**Batch Totalize**	0.0 to 200000000.0, 10digits
Alarming display	HA, HHA, LA, LLA will be flashing when alarming occurs in screens	**Decimal no.**	Flow rate: 0-4, programable
Communication output			Totalizer: 1-5, programable
Output Type	RS485 serial port output	**Compensation**	Temperature, pressure compensation
Isolation	Photoelectrical isolated	**Com. Type**	superheating steam, saturated steam, gas linear pressure, linear temperature
Function	read and write the data and parameter	**Square root**	Off, different pressure on
Protocol	Standard MODBUS-RTU protocol		different pressure off
Baud rate	4800, 9600, 19200	**Engineer unit**	Flow rate: Kg/h, kg/s, t/h, M3/hr…..
Address	0-253, programmable		Flow totalize: kg, t, m3….
Cable	RS485 shielded twisted pair cable		Batch totalize: kg, t, m3….
Math		**Polyline Math**	
Channel no.	1-6 channels	**Function**	Used for value polyline offset
Math type	Plus.: +, Minus: -, multiply, division: ÷	**Channel no.**	1-6 channels
	Average, Max. Min.	**Polyline no.**	0-6, programmable
Decimal No.	0-4, programmable	**Range**	-30000 to 30000
		Decimal no.	0-4, programmable
PC software			
PC version	Window 2000/XP, VISTA, Win7, 8, 10	**PC software**	free, Used when USB drive data transfer
PC hardware	30MB or more	**Functions**	Display the history data in digital and curve
Installation	Please copy it to your PC directly		Export the data as excel formal further
DCS software	Used for RS485 communication, option		Print the history data in curve by printer
Functions	Real time reading, monitoring while memory		Flow totalize display in shift, week, month

Order Code

SR5000SE Color paperless recorder, Cutouts size: 138X138mm								Description
SR5000S	**X**	-X	-X	-X	-X	-X	-X	SR5000S universal color paperless recorder
Size * Screen	**E**							180X150X50mm, 7-inch LCD Display, Touch Screen
Channel No.		01						1 channels input
		-02						2 channels input
		…..						……
		-06						6 channels input
Communication Output								None
			-C1					Photoelectric- isolated RS485 output, MODBUS
			-C3					Photoelectrical-isolated Ethernet output, MODBUS (Specified)
Flow Totalize, Math Function								None
				-F				Flow totalize with Temperature, Pressure Compensation; Math Function
OUT1								None
					-NOC			Relay alarm output: NO+NC ,30VDC/3A, 220VAC/3A
OUT2								None
						-NO		Relay alarm output: NC ,30VDC/3A, 220VAC/3A
Power Supply							-N	100-240VAC
							-D	24VDC

Notes:

1. Please choose the relative order code for correct functions you need

E.g.: Order Code: SR5000SE-06- C1-F-NOC-NO-N:

SR5000SE: Universal input, touch screen color paperless recorder

06: 6 channels

C1:RS485 communication output,

NOC, NO:2 relay output: NO+NC, NO,3A

F: Flow totalizer with temperature and pressure compensation, math Function,

Power Supply:100-240VAC

Default standard USB function and pc software: USB data transferring and PC software.

***Notes: the function is not required; it Is not required to be chosen in order code.**

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