Datasheet

Multi-loop digital display controller

SUP-2700

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Datasheet

Multi-loop digital display controller
SUP-2700

Multi-loop digital display control instrument with automatic SMD packaging technology, has a strong anti-jamming capability. It can be used in conjunction with various sensors、transmitters to display temperature, pressure, liquid level, speed, force and other physical parameters, and it can measure 8~16 loops input go the rounds, support 8~16 loops “uniform alarm output”, “16 loops separate alarm output”, “uniform transition output ”, “8 loops separate transition output” and 485/232 communication, and is applicable in system with various measuring points.

Applications

- Rivers and lakes
- Vessel and storage systems
- Control of sewage lift and pumping stations
- Well monitoring
- Ground water monitoring
- Environmental remediation
- Surface water ,monitoring
- Down hole
- Water tanks

SUP-2700

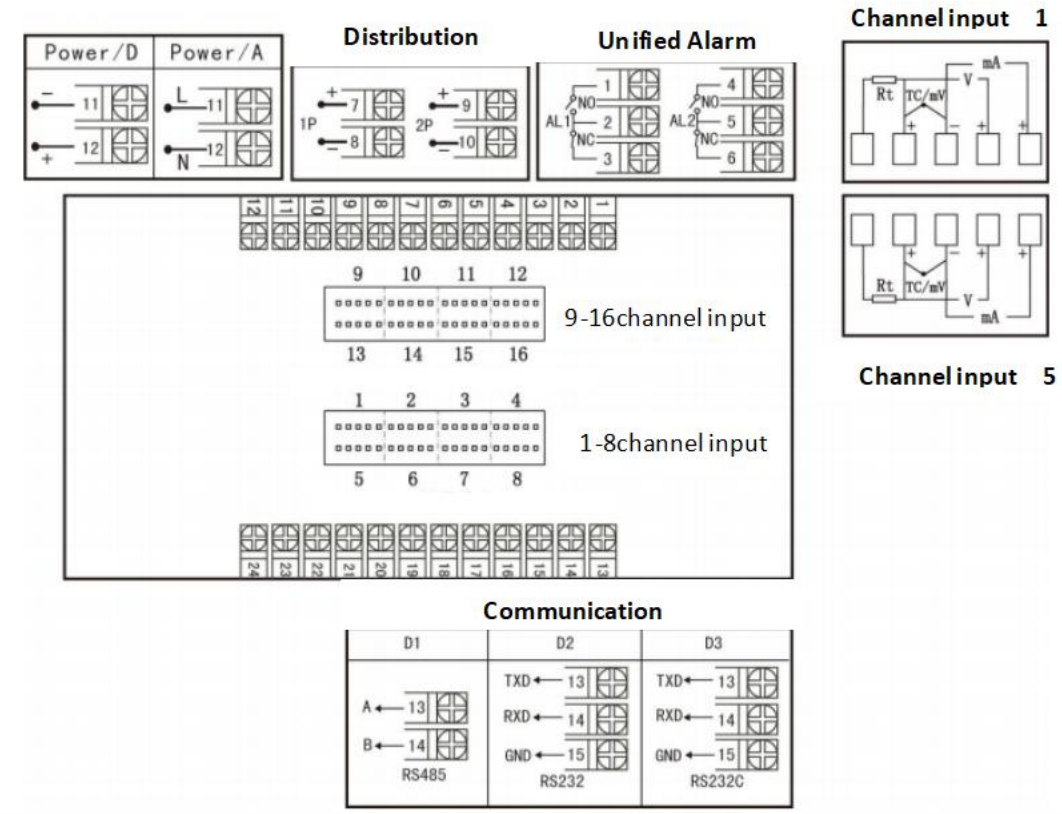
Features

- Double four-digit LED display
- 3 types of dimensions available
- Standard snap-in installation
- RS485/232 communication
- Multiple types of monitoring

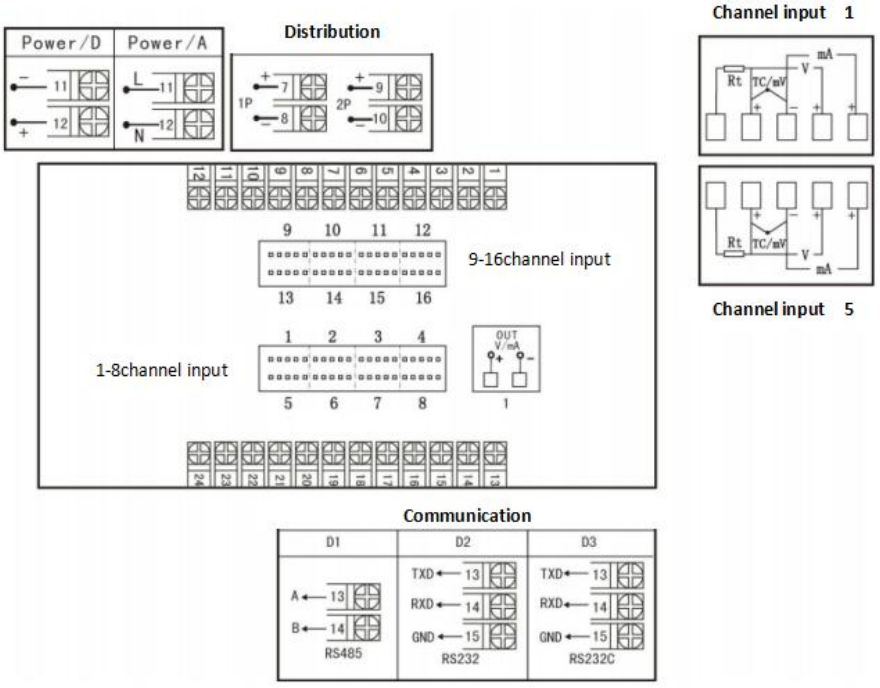
Input				
Input signal	Current	Voltage	Resistance	Couple
Input resistance	≤250Ω	≥500KΩ		
Input current maximum limit	30mA			
Input voltage maximum limit		＜6V		
Output				
Output signal	Current	Voltage	Relay	24V distribution
Allowable load at output	≤500Ω	≥250KΩ	AC220V/2A DC24V/2A	≤30mA
Parameters				
Accuracy	0.2%FS			
Setting	Panel touch key digital setting Parameter setting value password lock The set value is permanently saved when the power is turned off			
Use environment	Temperature:0-50℃ Relative humidity:≤85%RH Avoid strong corrosive gas			
Working power	AC 100～240V； 50～60Hz；DC 20～29V			
Power consumption	≤4W			
Display	LED working status display -1999～9999 measure value/set value display			
Structure	Standard snap-in			
Communication	Adopt standard MODBUS communication, RS485 communication distance up to 1 km, RS232 communication distance up to 15 meters			

Parameters Pn Lookup Table					
Degree no .Pn	Signal types	measuring range	Degree no .Pn	Signal types	measuring range
0	Thermocouple B	400～1800℃	18	Remote Resistance 0～350Ω	-1999～9999
1	Thermocouple S	0～1600℃	19	Remote Resistance 30～350Ω	-1999～9999
2	Thermocouple K	0～1300℃	20	0～20mV	-1999～9999
3	Thermocouple E	0～1000℃	21	0～40mV	-1999～9999
4	Thermocouple T	-200.0～400.0℃	22	0～100mV	-1999～9999
5	Thermocouple J	0～1200℃	23	-20～20mV	-1999～9999
6	Thermocouple R	0～1600℃	24	-100～100mV	-1999～9999
7	Thermocouple N	0～1300℃	25	0～20mA	-1999～9999
8	F2	700～2000℃	26	0～10mA	-1999～9999
9	Thermocouple Wre3-25	0～2300℃	27	4～20mA	-1999～9999
10	Thermocouple Wre5-26	0～2300℃	28	0～5V	-1999～9999
11	RTD Cu50	-50.0～150.0℃	29	1～5V	-1999～9999
12	RTD Cu53	-50.0～150.0℃	30	-5～5V	-1999～9999
13	RTD Cu100	-50.0～150.0℃	31	0～10V	-1999～9999
14	RTD Pt100	-200.0～650.0℃	32	0～10mA square	-1999～9999
15	RTD BA1	-200.0～600.0℃	33	4～20mA square	-1999～9999
16	RTD BA2	-200.0～600.0℃	34	0～5V square	-1999～9999
17	Linear resistance 0～500Ω	-1999～9999	35	1～5V square	-1999～9999

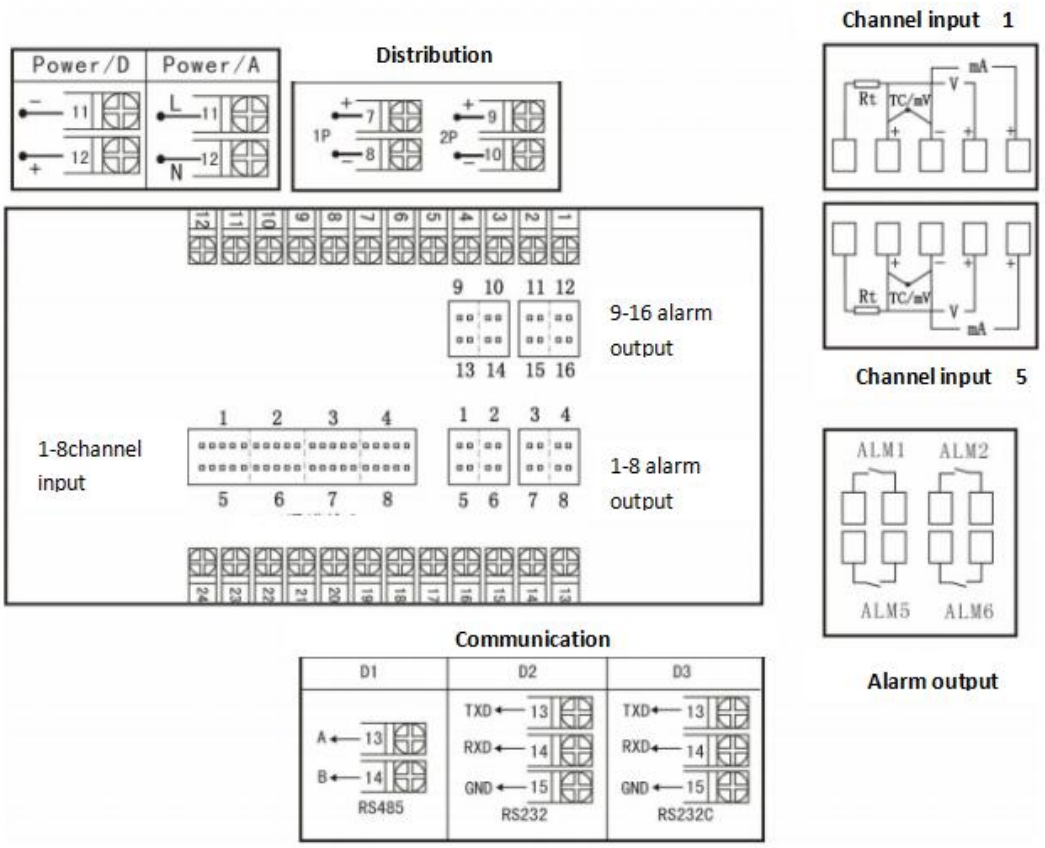
Wiring



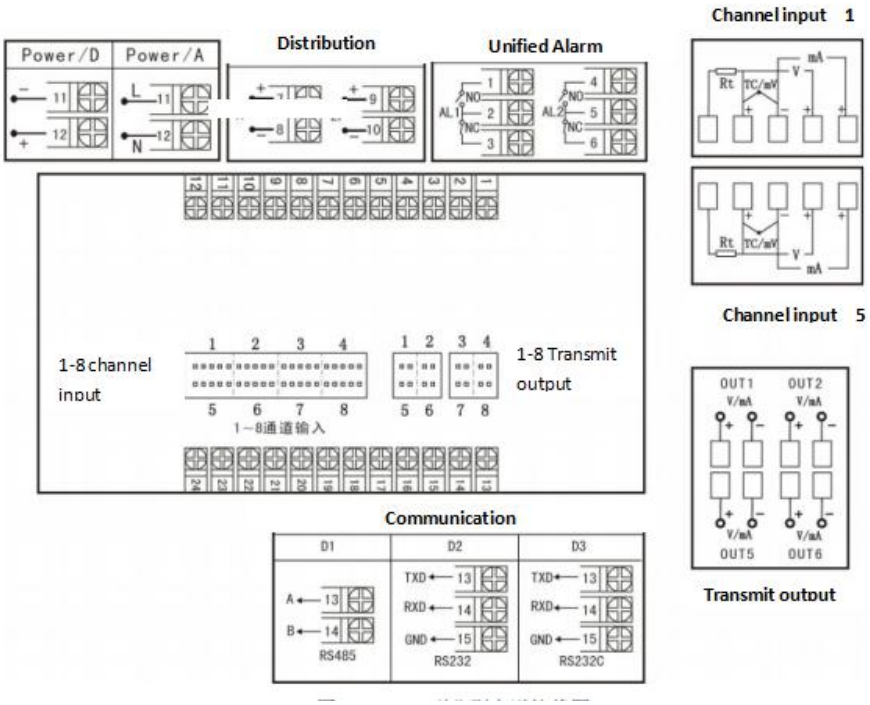
A, B, C type unified alarm wiring diagram



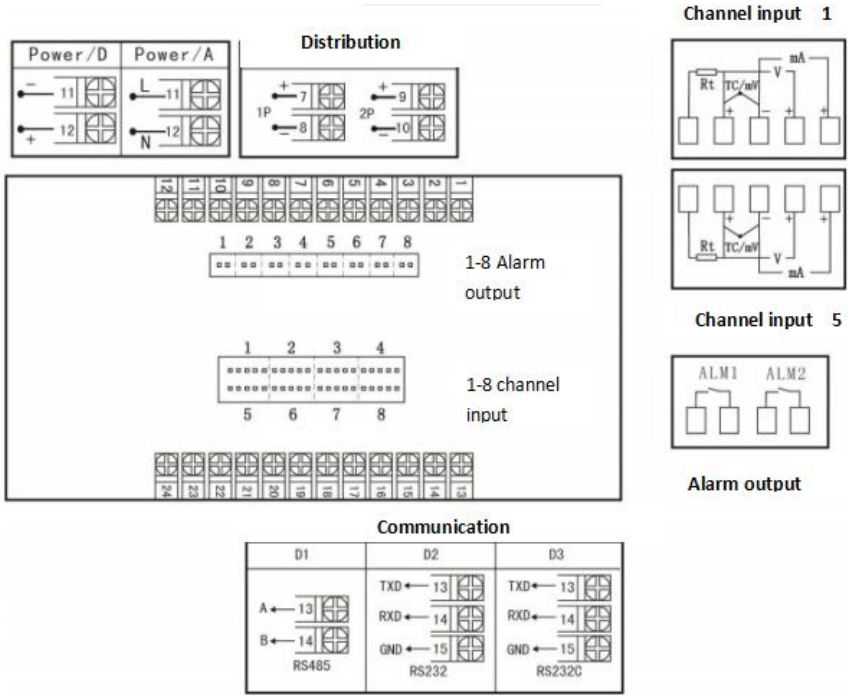
A and B type unified transmission wiring diagram



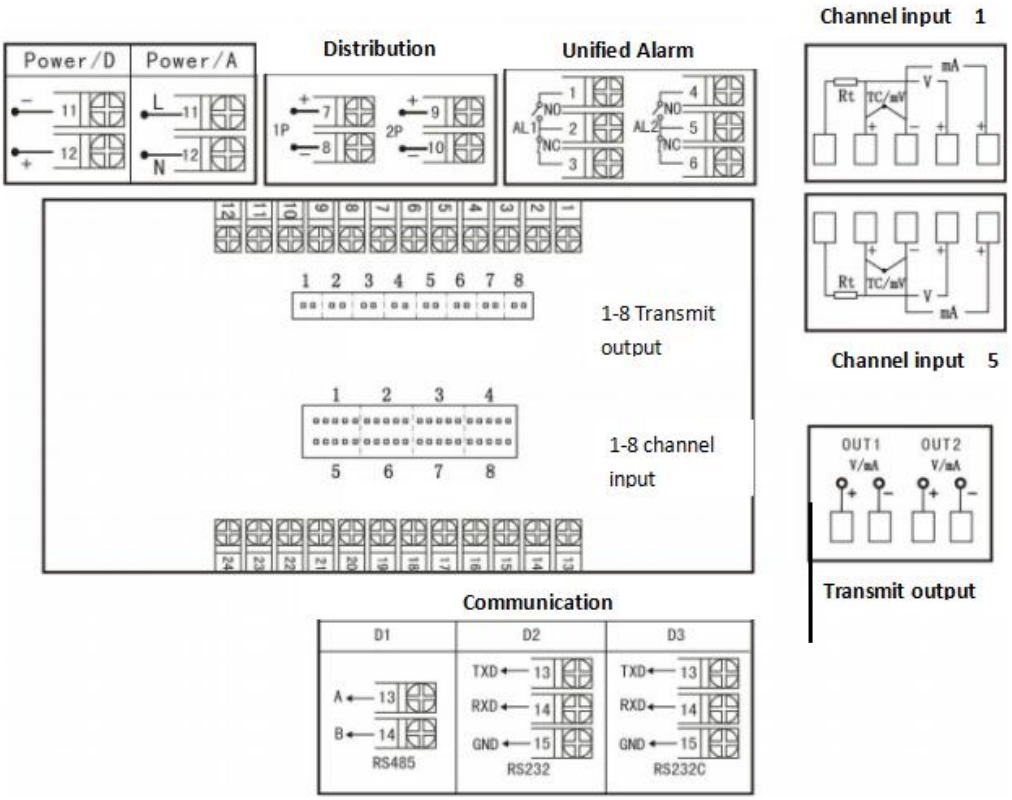
A and B type separate alarm wiring diagram



A and B type separate transmit wiring diagra

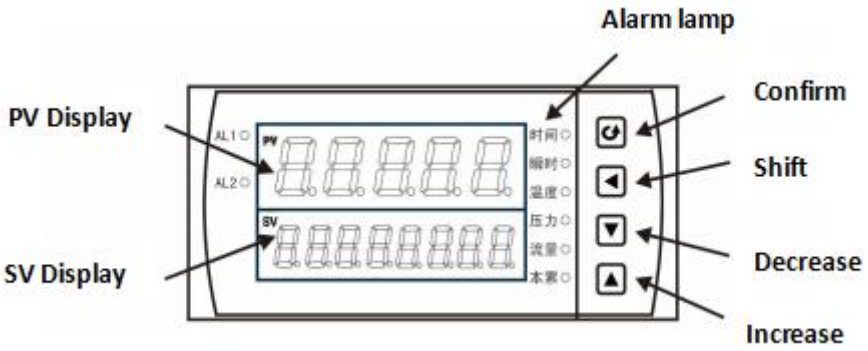


C type separate alarm wiring diagram



C type separate transmit wiring diagram

Dimension



Dimension	Hole Size
160*80mm	152*76mm
80*160mm	76*152mm
96*96mm	92*92mm

Ordering code

SUP-2700-M1-DS1-O1-D1-A1-DO1-V2														Description
SUP-2700	-	-	-	-	-	-	-	-	-	-	-	-	-	
Type	M1													8 channels
	M2													16 channels
Dimension		DS1												160×80×136mm
		DS2												80×160×136mm
		DS3												96×96×136mm
Analog output			O0											/
			O1											4-20mA(unified transmission)
			O2											0-20mA(unified transmission)
			O3											0-10mA(unified transmission)
			O4											（1～5）V(unified transmission)
			O5											（0～5）V(unified transmission)
			O6											4-20mA(unified transmission)
			O7											0-20mA(separate transmission)
			O8											0-10mA(separate transmission)
			O9											（1～5）V(separate transmission)
			O10											（0～5）V(separate transmission)
			OZ											Other
Communication				D0										/
				D1										RS485
				D2										RS232
				D3										RS232 Print
Alarm					A0									/
					A1									Unified alarm
					A2									Separate alarm
Distribution output						DO0								/
						DO1								1 Channel
						DO2								2 Channel
Power supply							V1							24VDC
							V2							220VAC