Datasheet

Single-loop digital display controller

SUP-2100

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The enhanced single-loop digital display controller adopts automatic chip packaging process, which has strong anti-interference ability. A dual-screen LED digital display is designed to display richer content. It can be used with various sensors and transmitters to realize the measurement and display of physical quantities such as temperature, pressure, liquid level, speed, force, etc. The output functions include: alarm control, analog transmission, 485/232 communication, etc. The digital display instrument has also newly added the factory default parameters, which is easier to operate and more widely applicable.

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

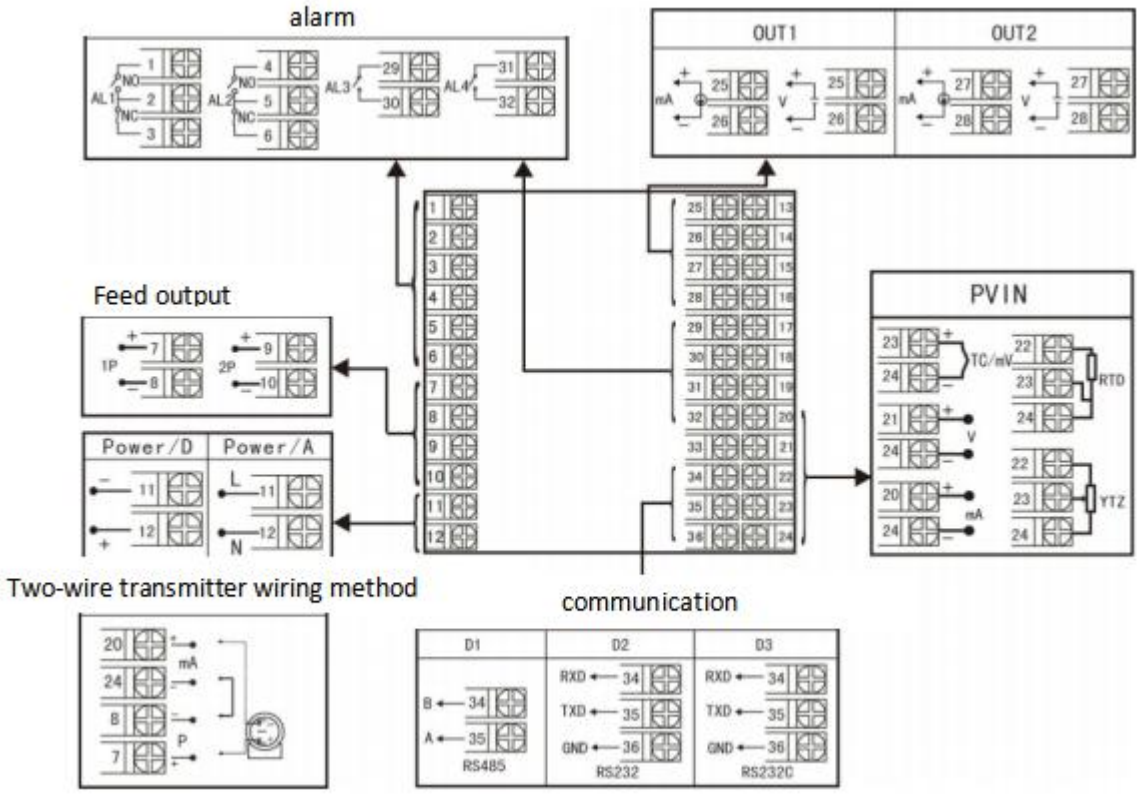
Single-loop digital display controller

Features

- Double four-digit LED display
- 10 types of dimensions available
- Standard snap-in installation
- Power supply: AC/DC 100~240V(Frequency 50/60Hz) Power consumption≤5W DC 12~36V Power consumption≤3W

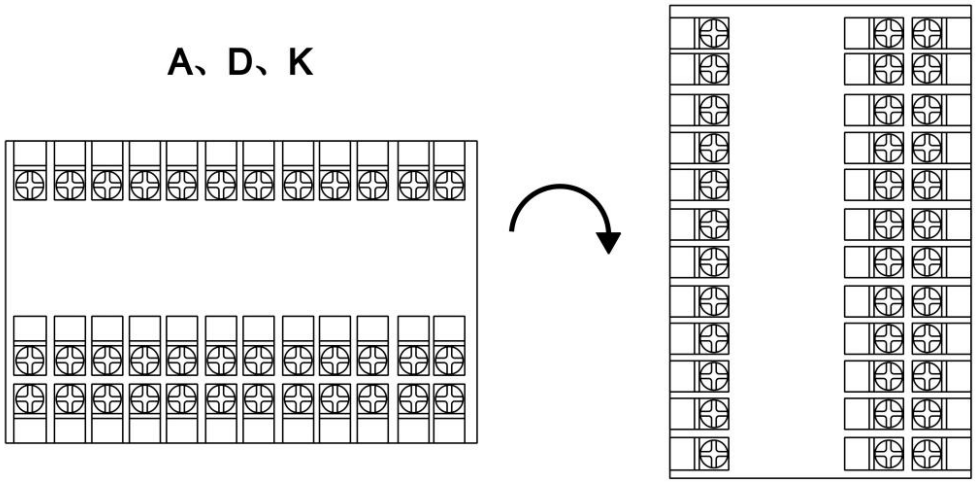
Parameters	
Accuracy	0.2%FS±1 word
Setting method	Panel touch key digital setting; parameter setting value password lock; setting value permanently saved when power off.
Display method	-1999～9999 measurement value display, 0～100% measurement value bar display, LED working status display
Apply environment	Ambient temperature: 0～50℃; Relative humidity: ≤85%RH; Avoid strong corrosive gas
Power supply	AC 100～240V (switching power supply), (50-60HZ); DC 20～29V (switching power supply)
Power consumption	≤5W
Structure	Standard snap-in
Communication	Using the standard MODBUS communication protocol, the RS-485 communication distance can reach 1 km, and the RS-232 communication distance can reach 15 meters. Note: When the instrument has a communication function, the communication converter is best to use an active converter

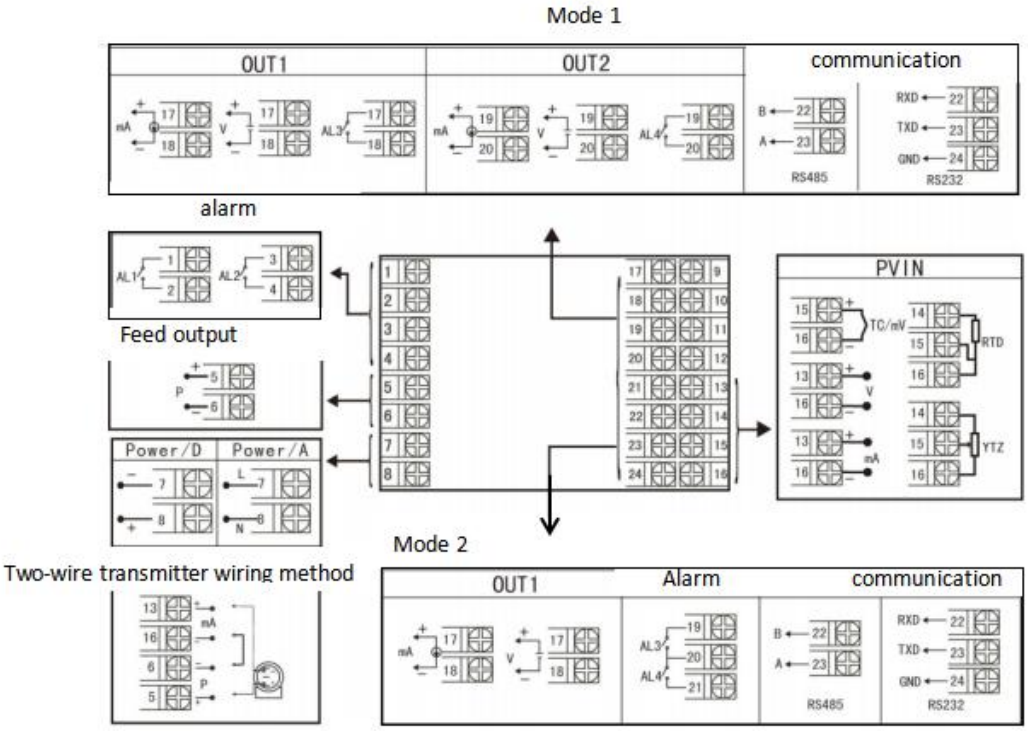
Wiring



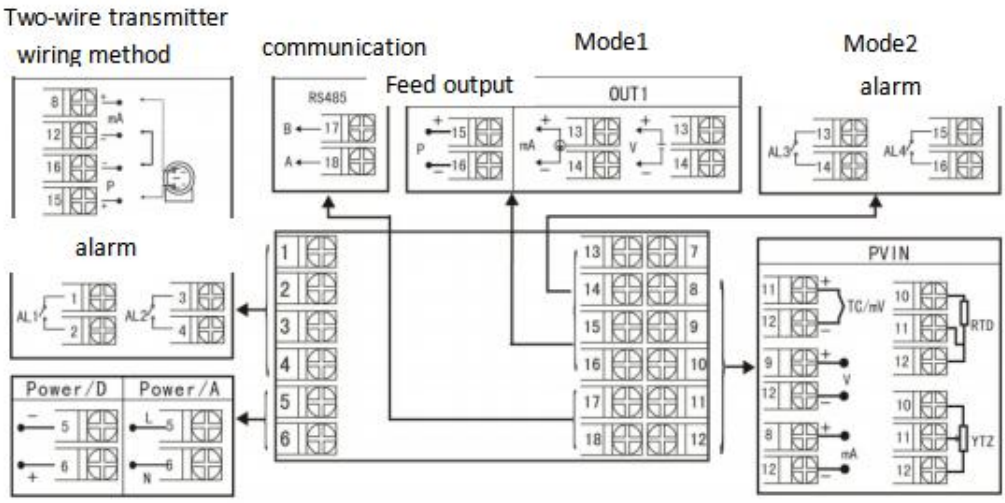
Dimensions are A, B, C, D, E, K, L, M Wiring Diagram

Note: The direction of the wiring terminals on the back cover of the horizontal and vertical meters is different, see the picture below



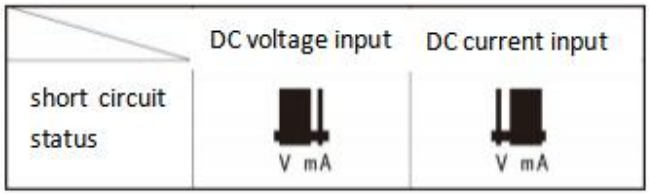


Dimensions F Wiring Diagram

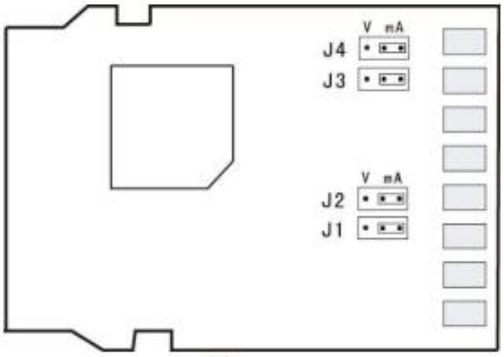


Dimensions H Wiring Diagram

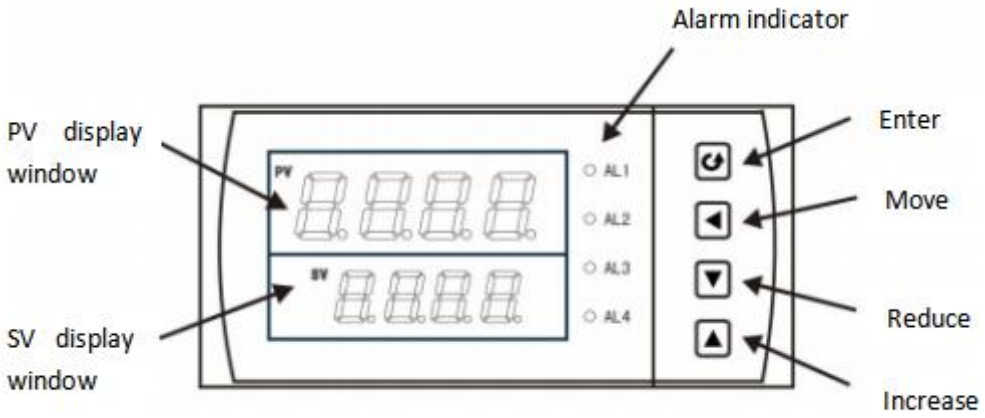
Note: The voltage and current input whose shape code is F must be switched through the short-circuit ring. J1 and J2 are the switching positions of the first input signal, and J3 and J4 are the switching positions of the second input signal.



The schematic diagram of the motherboard with the shape code F is as follows:



Dimension



Size/code	Hole Size	Size/code	Hole Size
160*80mm（horizontal）/A	152*76mm	72*72mm（squire）/F	68*68mm
80*160mm（vertical）/B	76*152mm	48*48mm（squire）/H	45*45mm
96*96mm（squire）/C	92*92mm	160*80m（horizontal beam）/K	152*76mm
96*48mm（horizontal）/D	92*45mm	80*160mm（vertical beam）/L	76*152mm
48*96mm（vertical）/E	45*92mm	96*96mm（squire beam）/M	92*92mm

Ordering code

SUP-2100-DS1-IT1-DO1-A0-D0-V1-O1T0-O2T0															Description
SUP-2100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Type	2100														
Size		DS1													160×80×110mm
		DS2													80×160×110mm
		DS3													96×96×110mm
		DS4													96×48×110mm
		DS5													48×96×110mm
		DS6													72×72×110mm
		DS7													48×48×110mm
		DS8													160×80×110mm
		DS9													80×160×110mm
		DS10													96×96×110mm
Input signal			IT1												1 channel signal output
Output				DO0											0channel distribution output
				DO1											1 channel distribution output
				DO2											2channel distribution output
Relay output					A0										No relay output
					A1										1 channel relay output
					A2										2 channel relay output
					A3										3 channel relay output
					A4										4 channel relay output
Communication						D0									/
						D1									RS485
						D2									RS232
						D3									RS232print output
Power supply							V1								24VDC
							V2								220VDC
The first output signal type								O1T0							/
								O1T1							（4～20）mA
								O1T2							（0～20）mA
								O1T3							（0～10）mA
								O1T4							（1～5）V
								O1T5							（0～5）V
								O1T6							（0～10）V
The second output signal type									O2T0						/
									O2T1						（4～20）mA
									O2T2						（0～20）mA
									O2T3						（0～10）mA

	O2T4				（1～5）V
	O2T5				（0～5）V
	O2T6				（0～10）V