DP3-SVA Series Sensor Meter User Manual

Features;

⊙Be applicable for sensors with linear output features or other equipments,such as measuring pressure, weight, temperature and humidity and so on.

⊙With Decimal point, Ratio, Measuring Range and Zero point setting function.

⊙With transformed analog 4～20mA output.

⊙Auxiliary power supply: +12V or +24V

1. Model

Model / Function	DP3-SVA1A	DP3-SVA2A	DP3-SVA1B	DP3-SVA2B
Analog output	No	Yes	No	Yes
Auxiliary Power	DC 12V	DC 12V	DC 24V	DC 24V

2. Technical Specification

Measured function	Equipped with different sensors
Input mode	Current：4～20mA(0～20mA) Voltage：0～10V （0～1V,1～5V,0～5V，0～200mV)
Accuracy	±0.5%F.S±2Digit (23℃±5℃)
A/D converter	Dual Slope
Sampling rate	About 2.5 times / second
Response speed	About 4.5 times / second
Max.Display	Decial Ponit free setting 1999
Display	Red LED high: 14.2mm
Loading of analog output	≤600Ω
Power consumption	≤3.5VA
Operating temperature	0℃～50℃
Power supply	AC 110V/220V 60/50Hz
Outside dimension	48mm(H)×96mm(W)×100mm(L)
Weight	350g
Insulation strength	AC 1500V 1min
Insulation impedance	DC 500V ≥100MΩ

3. Setting Function

While setting the range and the decimal point, be sure to pull out the internal printed circuit board, as the follow figure shows.

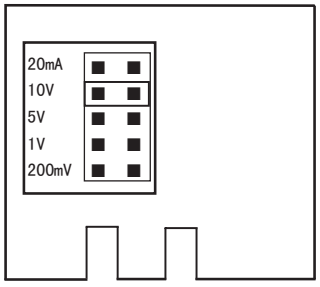


Figure 1

THE PIN HEAD OF SCALE SETTING

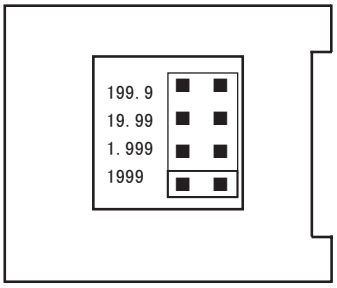


Figure 2

THE PIN HEAD OF DECIMAL POINT SETTING

1. Scale setting (Figure 1)

Welding spot short circuit position	20mA	10V	5V	1V	200mV
Input Range	4～20mA/0～20mA	0～10V	0～5V/1～5V	0～1V	0～200mV

2. Decimal point setting (Figure 2)

While moving the jumper cap on different PIN head, you can get the position of the DP that you want.

Notes:The original setting range is 0～10V display 0～1999, Customers can adjust the range according to their detail requirement.

4. Display Adjusting

While setting the span and zero, please open the front lid. As the following figure shows.

Fifure 3

1.SPAN ADJUSTMENT

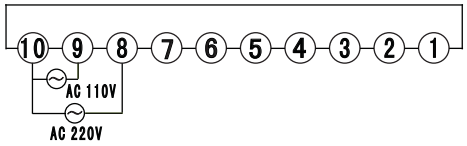
Input a typical value,the display value can be increased, when forward adjust, the display value can be decreased while reverse adjust.

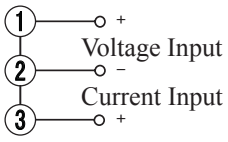
2.ZERO ADJUSTMENT

Zero Adjustment Function: forward adjust is forward biased, reverse adjust is reverse biased.

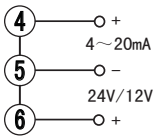
Notes: After the adjustment of span value and scale setting, you need to check whether zero need to be resetteel. Zero adjustment must be in zero input or input shortcircuit or an adjustment signal. Fox example, inputting 4～20mA,if you want to display zero, you must input 4mA in the terminal then adjust to zero. In order to diminish error, please adjust span and zero repeatedly.

5. Terminal Connection





Input Terminal Connection

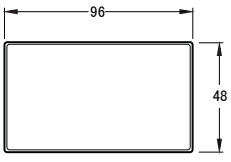


Output Terminal Connection

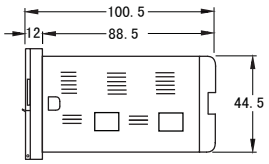
Notice: If there is any change, please refer to the connection on the Meter!!!

6. Size & Dimension

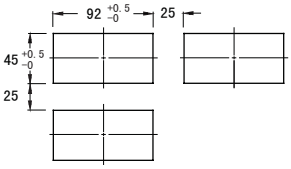
Panel Size



Side face Size



Mounting Size



7. Cautions

1. Used in ambient temperature of 0℃ to 50℃, humidity less than 85%R.H.
2. Input wire should not be too long, had better be shielded.
3. Operation and installation should be far away from the disturbant source.
4. Avoid using by violent vibrations or shock.
5. Avoid dust or corrosive chemical.
6. Store the meter in the shade place with temperature of -10℃ to 70℃, and humidity less than 60%. Don't contact with organic solvents or oils.