

SG8-SVA Digital Sensor Display Meter User's 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, span, range and zero point setting functions.

1. Technical Parameter

Measuring function	Equipped with many kinds of sensors
Input mode	Current: 4 ~20mA(0 ~20mA) Voltage: 0 ~10V (0 ~5V, 0 ~200mV)
Accuracy	$\pm 0.5\%F.S \pm 2Digit$ (23°C \pm 5°C)
A/D conversion	Dual slope
Sampling speed	About 2.5 times/s
Response speed	About 4.5 times /s
Max display	1999 set decimal point freely
Display	Red LED (14.2mm high)
Power consume	$\geq 3.5VA$
Ambient temperature	0°C ~ 50°C
Power supply	AC 220V 50Hz
Dimension	48mm(H) \times 96mm(W) \times 70mm(L)
Weight	500g
Dielectric strength	AC 1500V 1min
Insulated impedance	DC 500V $\geq 100M\Omega$

2. Function Setting

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

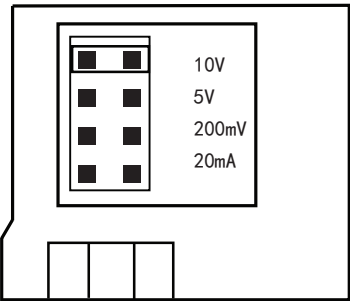


Figure 1

Range setting by short-connecting the pins

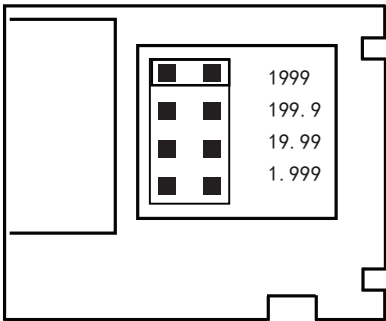


Figure 2

Decimal point setting by changing the pin head

2.1. Range setting (Figure1)

The positions of jumper cap	20mA	5V	10V	200mV
Input scale	4 ~20mA/0 ~20mA	0 ~5V	0 ~10V	0 ~200mV

2.2. Decimal point setting (Figure 2)

While moving the jumper cap on the PIN head, you can get the position of the DP that you want.
 Notes: The original setting range is 0 ~ 10V display 0 ~ 2000, you can adjust it as what you want .

3. Display Value Adjusting

While setting the span and zero, please do as follows :

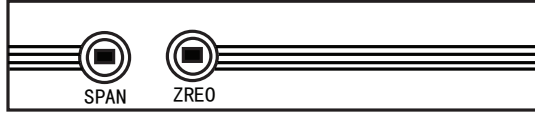


Figure 3

3.1 Span adjustment (SPAN)

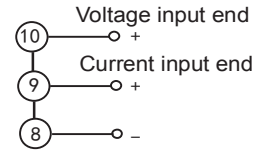
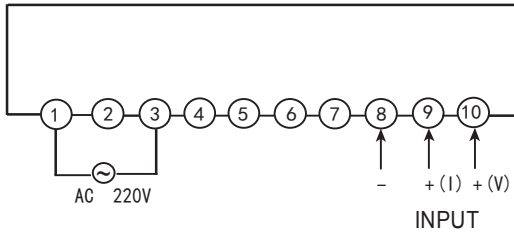
Input a typical value, the display value can be increased, when forward adjust, the display value can be decreased while reverse adjust.

3.2 Zero point adjustment (ZREO)

Forward adjust is forward biased, reverse adjust is reverse biased.

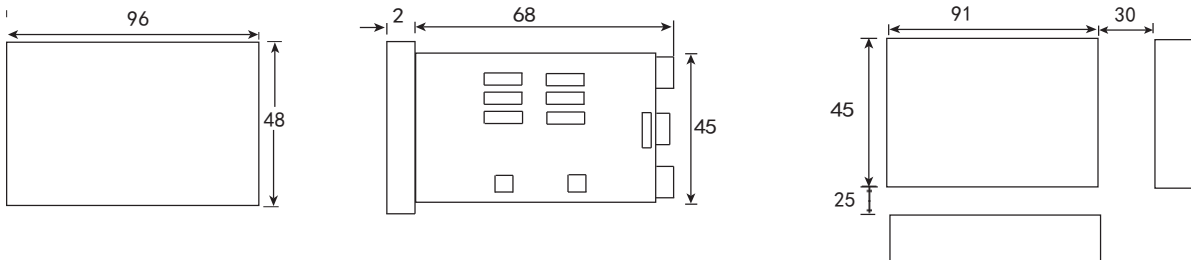
Notes: After the adjustment of span value and scale setting, you need to check whether zero need to be reset. Zero adjustment must be in zero input or input shortcircuit or an adjustment signal. For example, inputting 4\$ 20mA, if you want to must input 4mA in the terminal then adjust to zero. In order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

4. Terminal Connecting



Input connecting drawing (INPUT)

5. Dimension



6. Cautions

1. Used in ambient temperatures of 0°C to 50°C, 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 crash .
5. Avoid dust or corrosive chemical.
6. Store the meter in the shade with temperature of -10°C to 70°C, and humidity less than 60%. Don't contact with organic solvents or oil .