0-10V/0-22mA Voltage and current signal generator

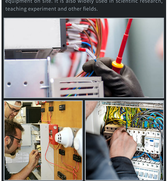
Four-digit display with high precision

- Special equipment for field commissioning
- Current 2, 3, 4 wire system
- One-key switching of current and voltage, simultaneous output

Current signal generator

Analog 0-10V / 0-20mA Current Voltage Signal Generator Source Simulator Transmitter Calibrator

The 0-10V/0-22mA voltage and current source signal generator is the most commonly used electrical test instrument for electrical engineering and technical personnel during the installation, debugging, overhaul and maintenance of electrical equipment on site. It is also widely used in scientific research, teaching experiment and other fields.



SG-002 handheld small voltage and current generator

Scientific research institutions, laboratories, corporate factories, electronic maintenance.

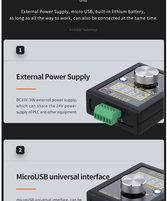
Pluggable terminal blocks, safe and convenient wiring

4-digit high-definition digital tube, the display brightness is uniform and adjustable (1-8 brightness)

- Aluminum knob cap
- Electroplated buttons
- High-quality film
- Micro USB
- Charging indicator
- Battery switch

Three power supply methods, very comprehensive! !

External Power Supply, micro USB, built-in lithium battery, as long as at the way to work, can also be connected at the same time.



1 External Power Supply

DC24~30V external power supply, which can share the 24V power supply of PLC and other equipment.

2 MicroUSB universal interface

microUSB universal interface, can be connected to power banks,charger, computer USB port, etc.

3 Lithium battery

Built in 1100mah 3.7V lithium battery.

*The protection circuit is not intrinsically safe,Only 1 output is the actual product.

Save parameters, Restart without losing data

Set a voltage and current value,Click the encoder to save, Restart directly display the saved value.No need to adjust the parameters every time you turn on the machine.This is very practical.

In the normal operation screen, press the OK button to save the output value. After releasing it, the screen displays "...", which means the save is successful. The output value after the next startup is the saved parameter; when debugging the device, we need to adjust the output value randomly , As long as the encoder is not pressed, the original saved parameters will be retrieved after restarting.

Wiring diagram

Note:
It commonly used active modes such as PLC inverter servo valves, passive

mode is used for special controllers, and 24V is required for output.

2. " " It is the internal resistance of the device, we don't need to connect it again.

Current output compatible with 2/3/4 wire output, compatible with active and passive types.

How to judge whether it is active or passive connection? Common methods are as follows:

① Method 1: Look at the internal schematic document of the device, if I+ is 24V+, it means passive connection, and if I- is 24VG, it means active connection.

② Method 2: Use a multimeter to measure the voltage between I+ and I- of the equipment, =0V is the active connection method, and =24V is the passive connection method.

Stable voltage and current output can be set

Voltage output 0-10V adjustable, accuracy after calibration is 0.01V.
Voltage output mode: 0-10V 2-10V 0-5V 1-5V 0-3.3V.

The current output is adjustable from 0-22mA, the accuracy after calibration is 0.01mA, and the current sampling resistance is not more than 500 ohms.
Current input mode: 0-20mA 4-20mA 0-22mA.

Coarse adjustment, fine adjustment dual adjustment mode, the value can be set

Coarse adjustment: plus or minus 10X (coefficient 1-50)
Voltage and current adjustment range is 0.1-5 V/mA

Fine tuning: plus or minus 1X (coefficient 1-50)
Voltage and current adjustment range is 0.01-0.5 V/mA

Remark: One turn of the knob is 30 pulses

Serial number	Description	Remarks	Default
F001	Coarse adjustment or fine adjustment	0: coarse adjustment 1: fine adjustment	0
F002	Output mode	0: 0-10v 1: 2-10v 2: 0-5v 3: 1-5v 4: 0-3.3v	0
F003	Display mode	0: Actual voltage 1: %0-100.0 2: 50HZ	0
F004	Coarse adjustment mode plus and minus value/each pulse	1-50 plus and minus figures for each pulse, no decimal point concept (1-50) x 10	1
F005	Fine adjustment mode plus and minus value / each pulse	1-50 plus and minus figures for each pulse, no decimal point concept (1-50)	1
F006	Output calibration value	-999...+999For internal reference only, please be cautious when modifying	
F007	Digital tube brightness	1-8: Level 1 is the darkest, level 8 is the brightest	1

Enter the current setting in the current adjustment mode, the parameter description table:

enter F002, you need to enter the password "+--+ (turn the knob to display ---)"

Serial number	Description	Remarks	Default
F001	Coarse adjustment or fine adjustment	0: coarse adjustment 1: fine adjustment	0
F002	Output mode	0: 0-20mA 1:4-20mA 2:0-22mA	0
F003	Display mode	0: Actual Current 1: %0-100.0 2: 50HZ	0
F004	Coarse adjustment mode plus and minus value/each pulse	1-50 plus and minus figures for each pulse, no decimal point concept (1-50) x 10	1
F005	Fine adjustment mode plus and minus value / each pulse	1-50 plus and minus figures for each pulse, no decimal point concept (1-50)	1
F006	Output calibration value	-999...+999For internal reference only, please be cautious when modifying. About 20mA±4mA	
F007	Digital tube brightness	1-8: Level 1 is the darkest, level 8 is the brightest	1

Hand-held small signal source, Easy to carry, on-site debugging tool

The size is only 89×69×28mm, the size of the mouse is as big as it is, so it is convenient to carry it.