



Signal calibrator

Datasheet

SUP-C702S

Signal calibrator

Signal calibrator SUP-C702S

Product description:

SUP-C702S Multi-functional Hand-held Signal Calibrator has a multiple signal Output and measurement including voltage, current and thermoelectric couple with LCD screen and silicone keypad, simple operation, longer standby time, higher accuracy and programmable output.



SUP-C702S Signal calibrator

Features:

- Highly accurate within 0.1% of the DC voltage range for source and measure
- Source and measurement can be performed simultaneously.
- Loop power supply function (24 VDC)
- Sweep functions that allow 3 types of continuous outputs:
 - > Line out function
 - > Stepping out function
 - > Segmentation output(c/m) function

Application:

LAB Industrial field;
PLC Process Instrument;
Electric value;

other area's debugging.

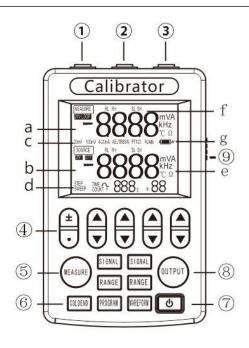
Function and system design

Item	Signal	Range	Accuracy	Resolution	Remark
DC voltage	20mV	0.00-24.00mV	±0.2%	0.01mV	
	100mV	0.0-100.0mV	±0.2%	0.1mV	
	V	Output 0.00-15.00V	±0.2%	0.01V	Output: max current 30mA measure: input Impedance 1.2MΩ
		Measure 0.00-30.00V	±0.2%	0.01V	
DC current	mA	0.00-24.00mA	±0.2%	0.01V	Output: max load 750Ω
	4-20mA	4/8/12/16/20mA	±0.2%	0.01mA	measure: input Impedance 100Ω
Passive current	mA	0.00-24.00mA	±0.2%	0.01mA	Output: external Power 16-30V
Power output	24VLOOP	24V/16V	10%	0.1V	Drive Current 24mA
	K	-270-1372℃	±1%	1℃	
	Е	-270-1000℃	±1%	1℃	
	J	-210-1200 ℃	±1%	1℃	
Thermocoupl	Т	-270-400°C	±1%	1℃	
е	R	-50-1768℃	±1%	1℃	
	В	0-1820℃	±1%	1℃	
	S	-50-1768℃	±1%	1℃	
	N	-270-1300℃	±1%	1℃	Output: start from 0°C
Resistance	Ω	15.0-400.0Ω	±0.2%	0.1Ω	
		0.0-400.0Ω	±0.2%	0.1Ω	
The thermal resistance PT100		-199.9-650.0℃	±0.2%	0.1℃	

Technical Specifications

Product parameter

Item	Parameter
Operating temperature and humidity	-10~55 20~80% RH
Storage temperature	-20~70℃
Size(mm)	115*70*26
Weight	300g
Power	3.7V lithium battery or 5V/1A power adapter
Power dissipation	300mA, 7~10hour
OCP	30V



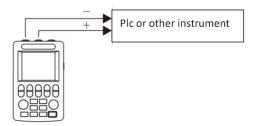


Each part and function

No.	Туре	Remark		
1	Common (black)	/		
2	Output(yellow)	1		
3	Measure(red)	/		
4	Modify button	Increase and reduce the value Switch the decimal point Toggle the value plus or minus		
5	Measure function button (blue)	【Signal】: select the type of the signal 【Range】: select the measuring range 【Measure】: open/exit the output function		
6	Cold end and program function button	【Cold end】: show/modify cold end(only when measuring TC) 【Program】: enable the program function 【Waveform】: change the programmable output wave		
7	Power	Turn on/off		

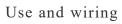
		Output	【Signal】: select the type of output signal		
	8	Output function(yellow)	【Range】: select the range of output signal		
			【Output】: open/exit the output function		
	9		auto power off: auto power off if there's not any operation		
			2. manual cold end: manual setting when measuring the TC		
		Switch	passive output: output the passive current signal		
		(factory default off)	4. Low power mode: output the 16v voltage to transmitter when		
			Input the passive current.In order to reducing the power		
			dissipation and lengthen the working time.		

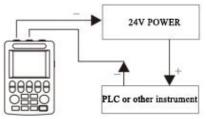
1. 4~20mA/TC output:



output active current/voltage to instrument

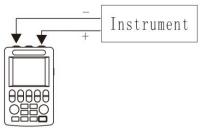
2. passive current output





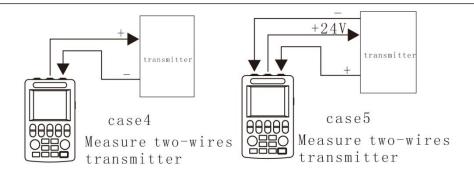
2 wires transmitter simulatorl

3. voltage, active current measurement

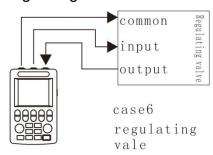


Measure voltage/active current signal

4. passive current measure



5. regulating valve



• Line out

The signal can be output linearly according to the time set by the user.

①press set the Main setpoint

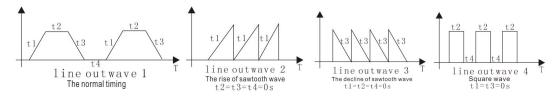
②press 【waveform】, "sweep" shows in screen, open the line out function

③press 【program】, set the "time" 0-999s there's 4 sections(rise time/hold time[top]/fall time/hold time[low])

4 press program, set the "count" :0-999

56the same to 5.1

Functions



• Stepping out

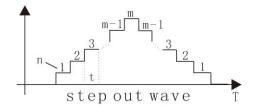
The signal can be output by step according to the value set by the user.

②press 【waveform】 , "step" shows in screen, open the step out function

③press 【program】 set "time":0-999s

4press [program] again, set n/m

⑤⑥the same to 5.1



• Segmentation output(n/m)

Through segmentation you can sprite voltage, current, TC signal to n/m times output. Output value=Main setpoint*(n/m)

- ①press to change the Main setpoint
- $\ensuremath{\textcircled{2}}\xspace$ press $\ensuremath{\textcircled{\textbf{T}}}\xspace$ program $\ensuremath{\textcircled{\textbf{J}}}\xspace$ open the segmentation output mode. Show the n/m manual
- 4 press set the N:0-m
- 6 press I program J exit the program function.



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