



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

signal generator

SUP-C703S

Supmea[®]

Committed to process automation solutions

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Datasheet**signal generator
SUP-C703S**

This signal generator has the function of measuring and outputting various signals, including voltage, current, thermocouple and other signals, and the upgraded model also supports the measurement and output of resistance and RTD signals. The signal generator is widely used in the laboratory, industrial field PLC and process instrumentation, electric valves and other debugging.

Applications

- Laboratory
- Industrial field PLC
- Process instrumentation
- Electric valves

Features

- Handheld design, small in size and convenient to carry.
- High precision of the product.
- It adopts a high - definition LCD liquid crystal screen and silicone keys with distinct functions, providing clear display and simple operation.
- Low power consumption of the product and long standby time.
- Equipped with power distribution output and programmable output functions.

**signal generator**

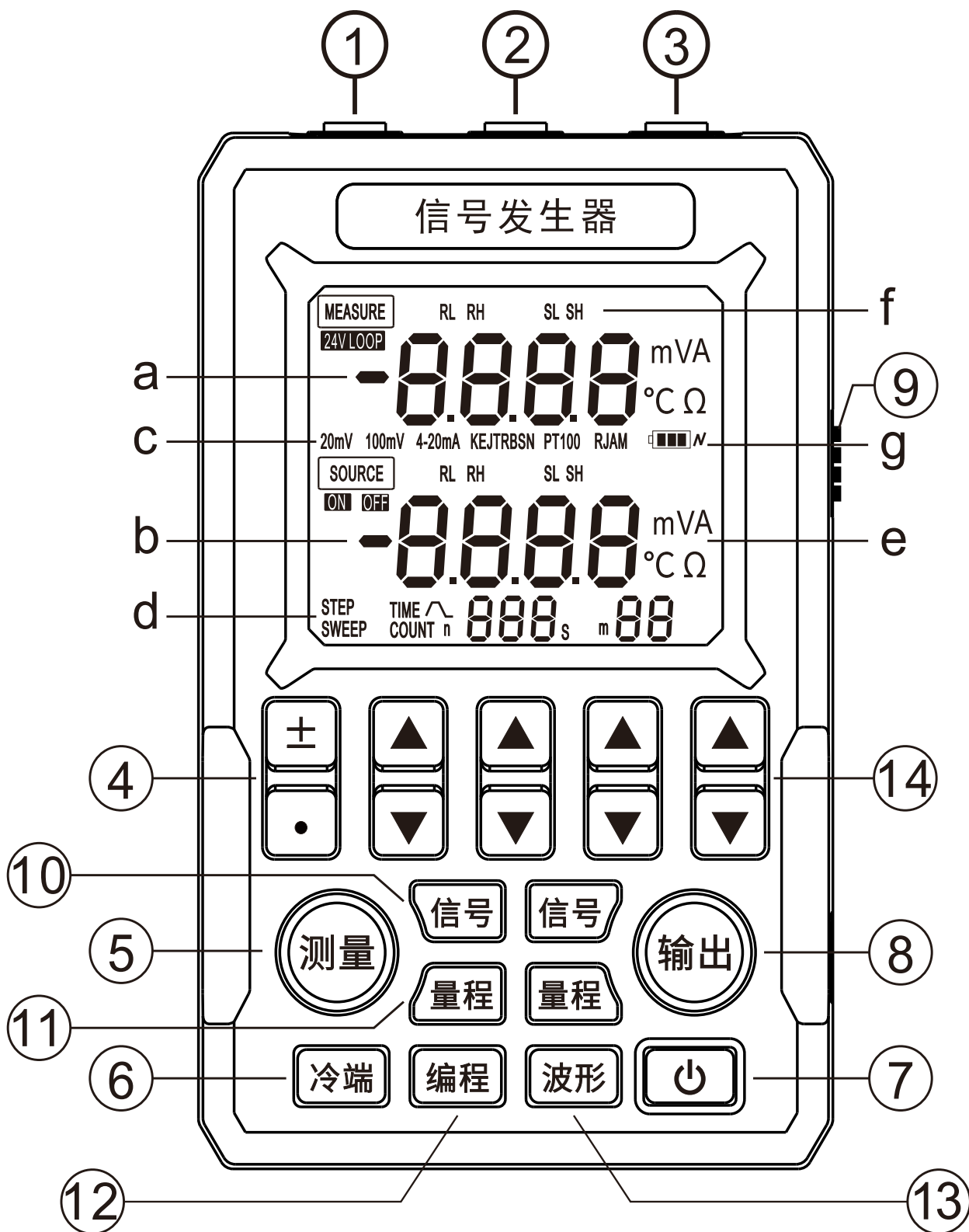
Principle











The C703 signal generator operates based on sophisticated electronic circuitry. It utilizes an oscillator circuit to generate a basic waveform, such as a sine wave, square wave, or triangular wave. This oscillator is precisely tuned to control the frequency. Then, through a series of amplifiers and modifiers, the amplitude and other characteristics of the signal can be adjusted. The generated signal is finally outputted through appropriate connectors, allowing it to be used for testing, calibration, or other applications where a stable and controllable signal source is needed.

Parameters

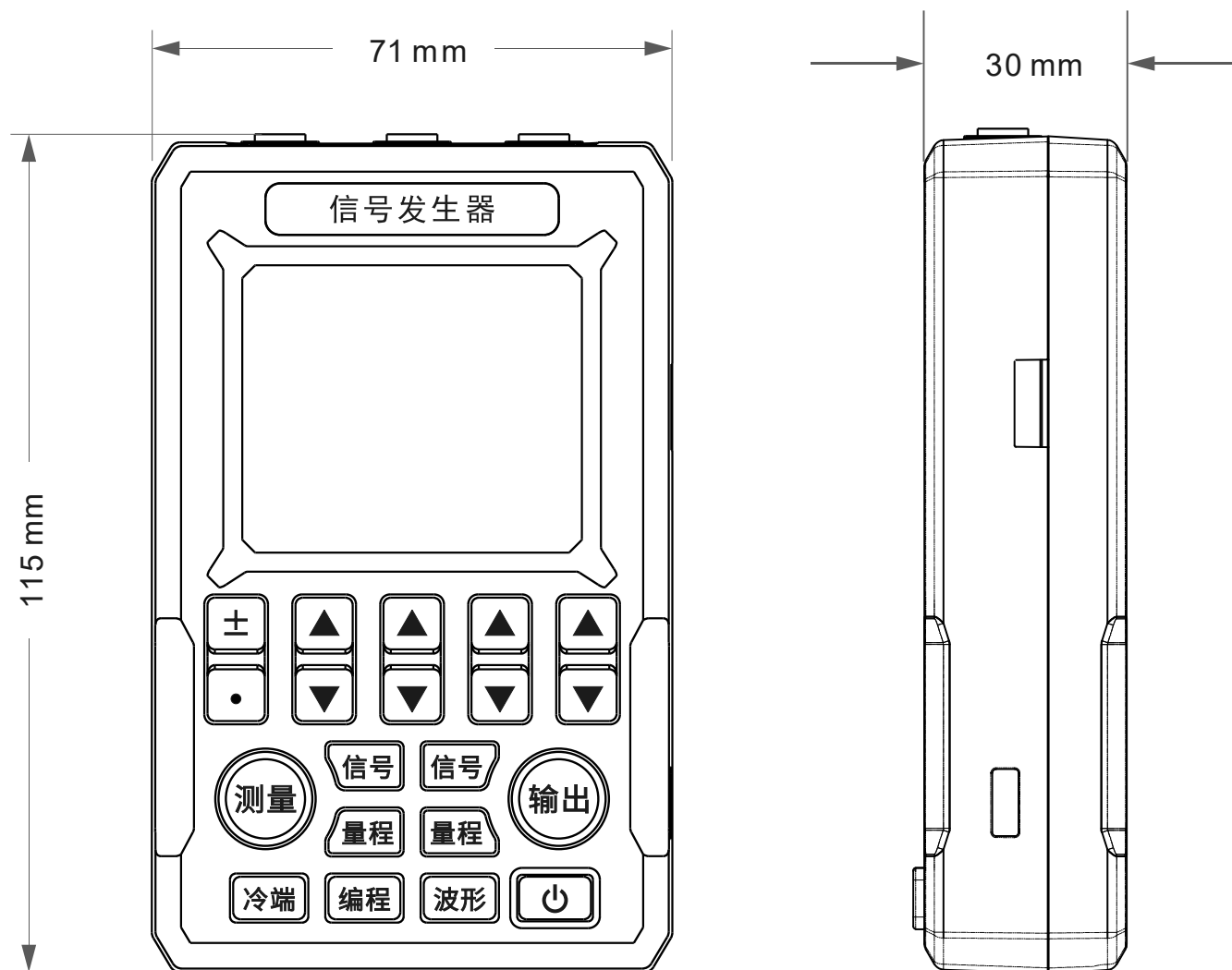
Power Supply	4 AAA batteries; External 5V, 1A adapter for power supply
Battery Capacity	When powered by 4 AAA batteries (nominal capacity of each battery is 1100mAh), it can be used continuously for 4 hours under full load and 17 hours in standby mode
Reverse and Overcurrent Protection	30V
Environmental Conditions	- Working Temperature: (- 10 ~ 55)°C - Working Humidity: 20%RH ~ 80%RH (no condensation) - Storage Temperature: (- 20 ~ 70)°C
External Dimensions	115mm * 71mm * 30mm
Weight	300g

Wiring



Serial Number	Name	Description
①	Black Terminal	Common Terminal
②	Yellow Terminal	Output Signal Terminal
③	Red Terminal	Test Signal Terminal
④		Switch the decimal point and sign of the value
⑤		Turn on/off the measurement function
⑥		Display/modify the cold junction (only valid when measuring thermocouples)
⑦		Turn on/off the power supply
⑧		Turn on/off the signal output
⑨	dipswitch (Factory default is OFF)	1. Auto Power-off: Automatically power off after 10 minutes without any button operation.2. Manual Cold Junction: Manually set the cold junction value when measuring thermocouples.3. Passive Output: Output passive current signals to simulate a transmitter.4. Low Load Mode: When passive current is input, output 16V voltage to power the transmitter, aiming to reduce power consumption and extend usage time.
⑩		- Switch the measurement/output signal type. - Switch the measurement/output range. - Enable the programming function. - Switch the programmable output waveform (linear output/step output). - Increase and decrease value keys.
⑪		Switch the decimal point and sign of the value
⑫		Turn on/off the measurement function
⑬		Display/modify the cold junction (only valid when measuring thermocouples)
⑭		Turn on/off the power supply

Dimension



Product external dimensions

Maintenance and Care

Chapter 8 Maintenance and Care

The instrument is powered by four No.7 batteries (AAA), when using it for a long time, please use the 5V/1A adapter for power supply to prevent power loss due to insufficient battery power.

If you use mobile phone charger to supply power, please make sure the output current of the charger is 1A.

This meter is not waterproof, please do not use it in high humidity environment. Do not place the meter in an unstable or potentially strong vibration place. Do not place the unit in high humidity, dusty, direct sunlight, outdoors or near heat sources.

Ordering code

SUP-C703 -F		Description
SUP-C703S Instrument Type	- F	full-featured