

Signal Generator Operating Manual

■ Main Parameters

Power Supply Voltage: 24VDC

Voltage Output: 0-10V adjustable, drive current <20mA

Current Output: 0-22mA adjustable, load sampling resistance <500 ohms

Adjustment Resolution: 0.1 V/0.01V or 0.1mA/0.01mA

Degree of linearity: Superior to 0.2%

Display Mode: 4-digit digital tube

Accommodation Mode: Rotary encoder + buttons

■ Definition of Terminal Interface

24V: Positive pole

0V: Negative pole

ACOM: Voltage and current signal output negative

Aout+: Current signal output positive

Vout: Voltage signal output positive

■ Parameter Settings and Application Methods

1. Switching Voltage/Current Mode: Click the Display button to switch between the current voltage/current modes. As the current output value is digitally displayed, rotate the encoder to alter the output value. Press the encoder button to reset or restore the output value.
2. Method of Entering Menu Mode: Long press the rotary encoder and the screen will display- - - -.At this time, rotate the rotary encoder once each time; in voltage mode, the sequence is right-left-left-right, and the screen displays rLLr. If the password is correct, it will automatically enter the menu interface to display P001; in current mode, the sequence is right-left-right-left and screen displays rLrL. If the password is correct, it will automatically enter the menu interface to display P00l.
3. Save and Exit: When "P00X" interface is currently displayed, long press the encoder to save and exit to the main interface.
4. Exit without Saving: When "P00X" interface is currently displayed, enter the parameter adjustment mode, long press the encoder to exit without saving to the main interface.

■ Voltage menu

Parameter	Description	Remarks	Default
P001	Mode	0: Coarse adjustment; 1: Fine adjustment	0
P002	Voltage range	0: 0-10V; 1: 0-5V; 2: 0-3V; 3: 0-2.5V	0
P003	Coarse adjustment resolution	Adjustment resolution = 0.1V x current display value	01
P004	Fine adjustment resolution	Adjustment resolution = 0.01V x current display value	01
P005	10V calibration	Rotate encoder until 10V and then press encoder for confirmation	4015
P006	0.03V calibration	Rotate encoder until 0.03V and then press encoder for confirmation	18
P007	Power-off save	0: Off; 1: On (save after being stable for 600s)	0

■ Current menu

Parameter	Description	Remarks	Default
P001	Mode	0: Coarse adjustment; 1: Fine adjustment	0
P002	Current range	4:0-20mA; 5: 4-20mA; 6: 0-22mA; 7: 4-22mA	4
P003	Coarse adjustment resolution	Adjustment resolution = 0.1mA x current display value	01
P004	Fine adjustment resolution	Adjustment resolution = 0.01mA x current display value	01
P005	20mA calibration	Rotate encoder until 20mA and then press encoder for confirmation	3702
P006	0.1 mA calibration	Rotate encoder until 0.1mA and then press encoder for confirmation	8
P007	Current power-off save	0: Off; 1: On (save after being stable for 600s)	0