ProMax CSG3 4-20ma Current and Voltage Signal Generator

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ProMax CSG3 is an accurate pocket size current & voltage generator and also a measurement tool. This is a commonly used test equipment for electrical engineering and technical personnel during the installation, debugging, overhaul, and maintenance of electrical equipment on site.

It has a colour-clear LCD screen, a large capacity rechargeable Li battery, and a Micro USB port. The signal generator meter has Fast Output Mode, Manual or Automatic Output Mode, Curve Output and Signal Conversion function. The measurement and display accuracy is upto 0.01mA & 0.01V. With a simple button layout, portable enclosure, and precision display, it is an ideal simple calibration meter for industrial sites.

Features

- Generates User Adjustable 0 to 24mA Current and 0 to 12V Voltage Signal
- Can also measure both voltage and current signals for calibration and troubleshooting
- Multiple Display Screen Layouts for different applications
- Adjustable Current Output: 0-24mA source/sink signal output,0mA and 24mA Signals can be used to simulate Fault and Out of Range signals
- Adjustable Voltage Output: 0-12VDC, Fixed 24V output for device calibration
- Max Current And voltage: 0-23mA 0-30V input measurement.
- Internal polarity Reverse connection and Over current protection; Protection voltage 30V
- Inbuilt Rechargeable Battery, Micro USB Connector for charging
- Supports 2/3 wire 0-22mA sink or source signal
- current voltage signal conversion functions included.
- 0.01mA, 0.01V accuracy for signal output and input measurement.
- 2000mAH 3.7V rechargeable inbuilt battery Battery Charge Indicator. USB Charging is available.
- Large clear colour LCD display input and output signal Displayed.
- Offers easy and convenient handheld operation
- Has one button fast output, automatic ascending, descending and cycling output mode.
- It can be used to generate preset time v/s current signal curves to simulate dynamic signals.

Applications

- **Multifunctional Sensor Calibrator:** Can be used to calibrate process display controllers and sensors working on 4 to 20mA or 0 to 12V voltage signals
- **Multifunctional Sensor Simulator:** Simulate multiple sensors for troubleshooting and debugging systems. Using this calibrator, engineers can identify the fault in the sensor, controller or wiring by simulating sensor output signals and running carrying out test procedures.
- **Hand-Held Operation**. Small enough to fit easily into a tool bag and to use in tight spaces. Runs an entire shift on a rechargeable Li-ion battery pack. Great for testing on the field.
- **2 operating modes:** Measure & Source (generate) —enable technicians to troubleshoot, calibrate, generate and measure signals with just one tool
- The signal calibrator can output a user-defined signal when a user enters into signal value through digit buttons.
- Debugging of industrial field PLCs
- Process Instrumentation: Signal Generators, Signal measurement, Valve Adjustment, Inverter control
- PLC & Control Panel debugging by bypassing sensors and sensor calibrations
- LED & Equipment Testing or Control

Active current output: 0-24mA

maximum load: 750Ω

Passive current output: range: 0-24mA

4-20MA 0-10V

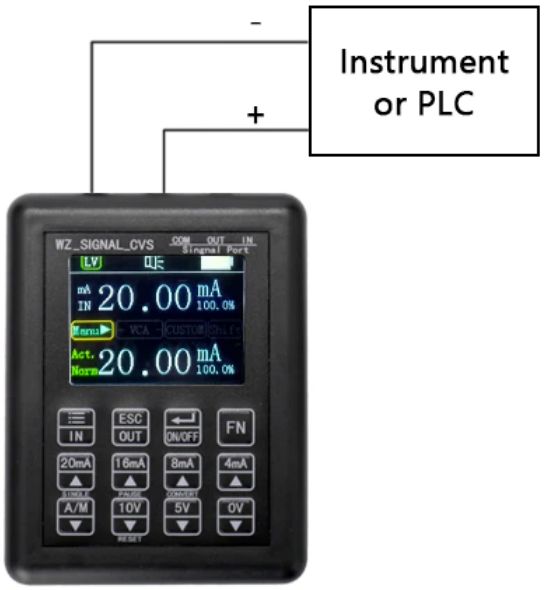
With internal battery voltage hint, (UV light)when the undervoltage light is on, please turn off the charging.

Technical Specifications

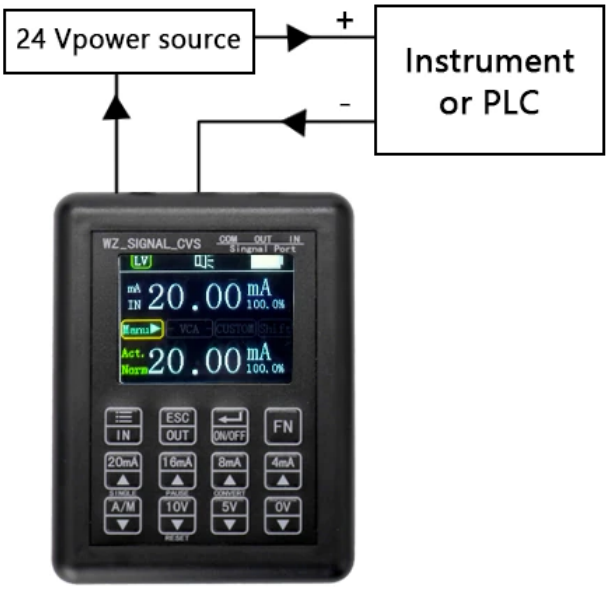
Active current source output	0-24mA, accuracy 0.01mA, max. load 750 Ω.
Sink passive current output	0-24mA, accuracy 0.01mA, external power supply max. 30V
Voltage signal output	0-12V, accuracy 0.01V
Output mode	Automatic output; Manual output; ascending, descending, cycling mode.
24V output	Driving current is 24mA, have current loop display.
Display mode	Color LCD display, can display input, output signal in the full screen
Current input measuring	0-24mA, accuracy 0.01mA
Voltage input measuring	0-30V, accuracy 0.01V
Input to output switching	Can be voltage to current source mode, sink mode, current to voltage mode switching, one button fast output.
Additional output function	Customized output, user can set any min. output value and max. output value.
Language	English default; Simplified Chinese; Traditional Chinese
Battery	2000mAH large capacity rechargeable Li battery.
Battery durability	6 hours operating time at 20mA output.
Port	Micro USB port for power supply and battery recharging.
Protection Circuit	Polarity reverse connection protection, over current protection, protection voltage 30V.
Operating Temperature	0-50℃
Size	90x70x28mm

Connection

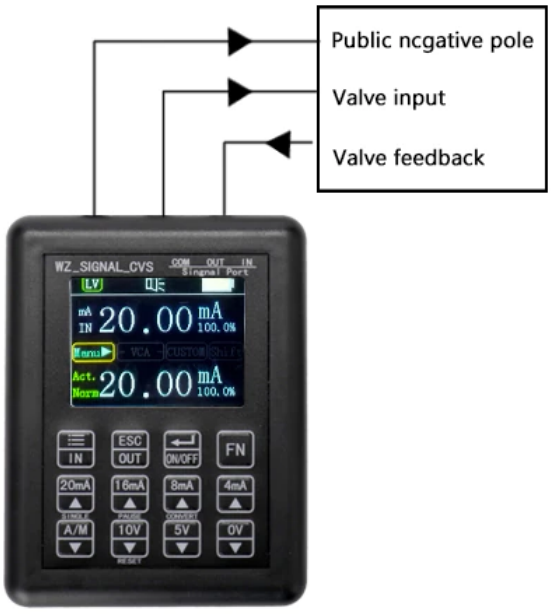
active two-wire transmitter measurement method



passive current output two-wire connection menthod



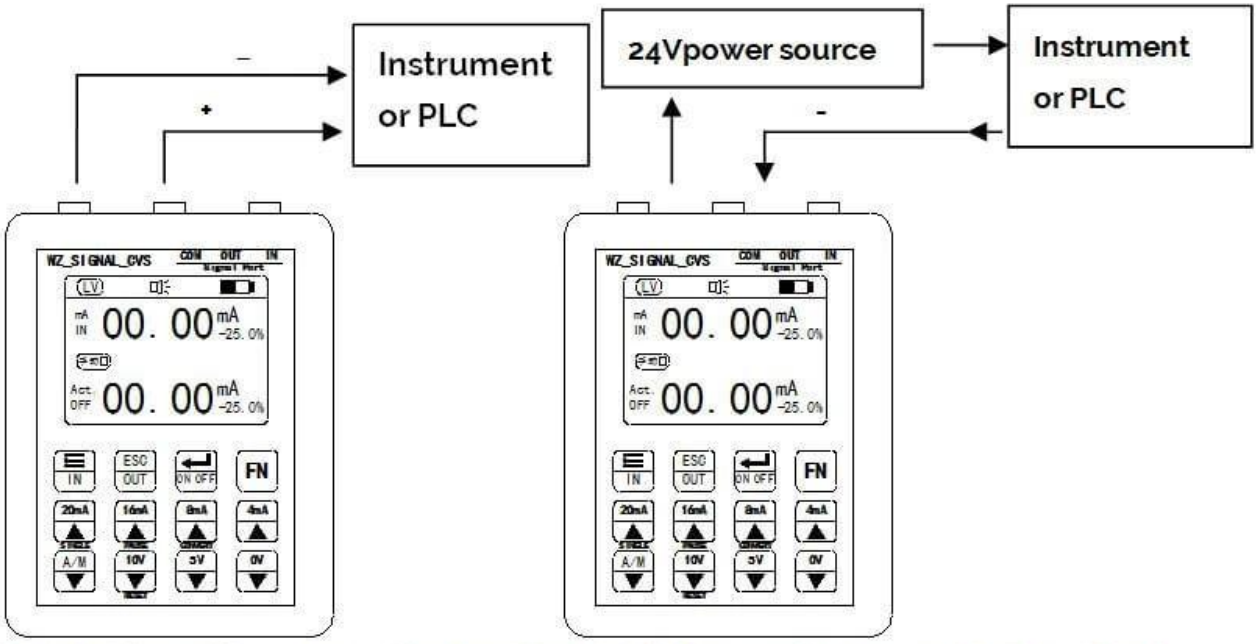
adjusting valve connection method



three-wire sensor test method

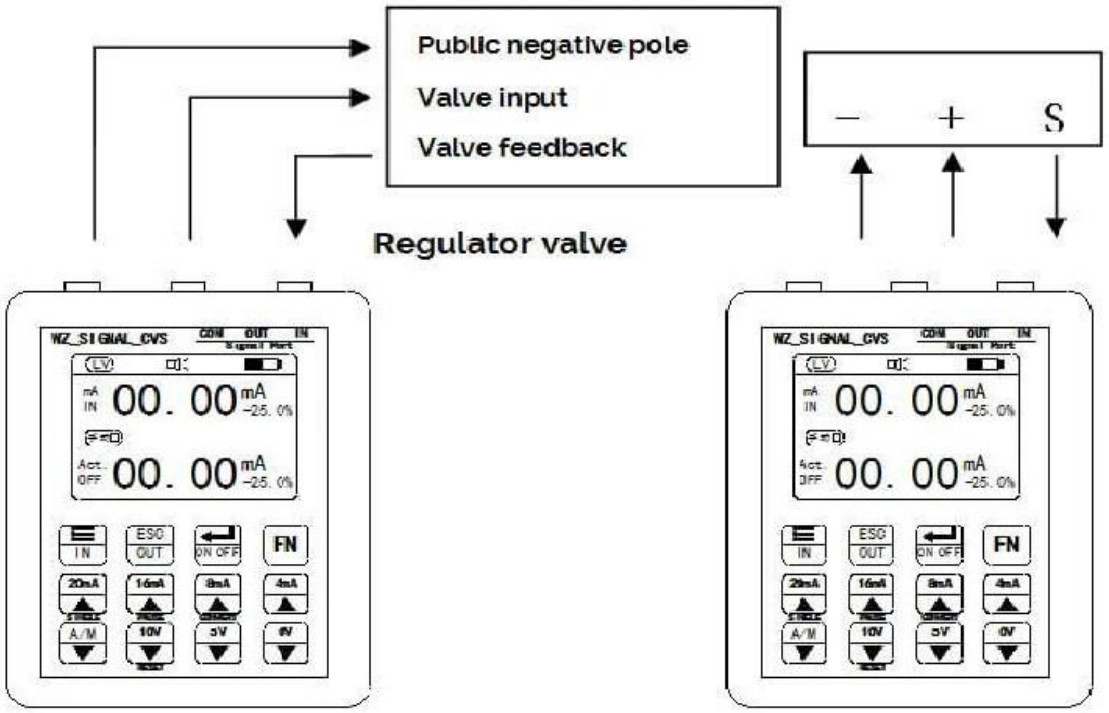
(1) active two-wire transmitter measurement method

(2) Passive current output two-wire connection method



(3) adjusting valve connection method

(4) three-wire sensor test method



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