3 Start Using

Connect to a Voltmeter, Ammeter, DAQ, or PLC
Voltage should vary from 0.5 to 4.5 V DC or Current from 4 to 20 mA
when applied load goes from 0 to full scale

2 Calibrate

AI-1000-CV with your Load Cell Before use
Once calibrated, ALWAYS keep & use load cells together

1 Connect your Load Cell

Connect the Load Cell into Terminal Block
Connect wires and output wires - Terminal Block
Follow instructions on "How to Calibrate"

How to Calibrate

1. Watch this Video first: youtu.be/2g7SiNyOIYg
2. You MUST calibrate YOUR load cell with the AI-1000-CV before use. Once calibrated you MUST use the same signal conditioner with the same load cell to make sure you are getting the correct signal into your system
3. Provide 24 V power supply
4. Set the Excitation voltage to 9V by adjusting RVin
5. Adjust RVo and/or Rlo to set initial voltage/current level without any load or zero load
6. Adjust RVs and/or Rls to max voltage (4.5V) or max Current 20 mA when full load is applied
7. Adjust the RVo and RVs or the Rlo and Rls iteratively until the output meets your target outputs

Please be gentle with the Potentiometers ("Pots") turns and don't overdo it, to avoid damaging the Potentiometers. If changing the Pots does not change the output voltage as expected then make sure to check your load cell independently of the AI-1000 and then try again

Loadstar SENSORS
Sensing Made Easy

AI-1000-CV

Analog Signal Conditioner for Load Cells & Strain Gauges with Voltage and / or Current Outputs that amplifies the low level signal (mV/V) from a load cell into a 0.5 to 5 V DC signal and / or 4-20 mA Current Output

Use 24V DC
regulated Power supply.
Not included with unit.

Help

loadstarsensors.com/assets/specsheets/ai1000cv.pdf

support@loadstarsensors.com

Watch

Set up & Calibrate with AI-1000-CV: youtu.be/neZTZXuGdOk

Access Detailed Information

Scan the QR Code

Or

Visit - loadstarsensors.com/documentation.html