

# How to Calibrate ELP/DCM97 series DC Electronic Load

Calibrating tools:

Please choose the proper voltmeter and Ammeter.

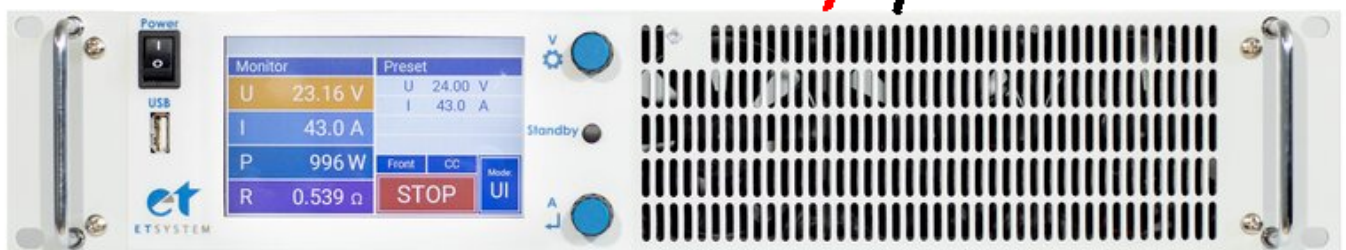
- high resolution voltmeter (6- 1/2 digit)
- 1/10000 high accuracy Ammeter (5V,50A)
- Keithley 2000 Multimeter

## 1. The steps to calibrate voltage

Wiring diagram for calibration



Keithley 2000



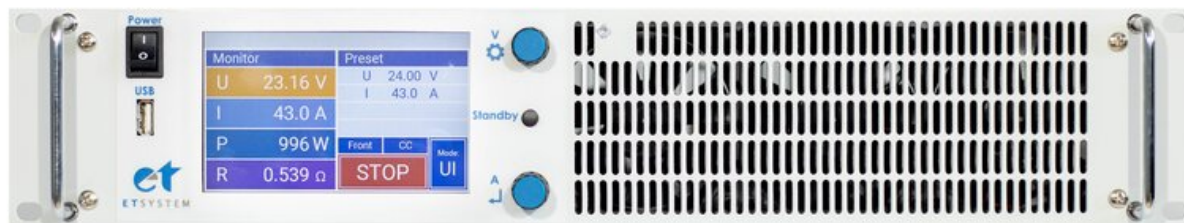
Power Supply for example LAB/HP or LAB/SMP



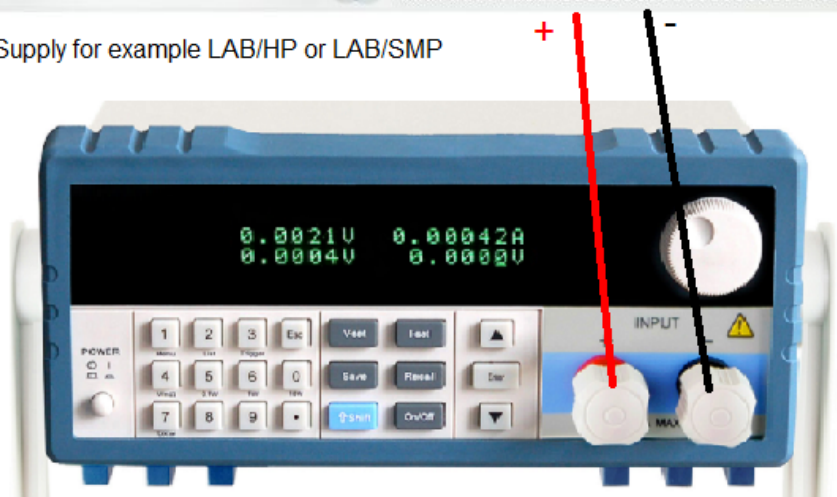
ELP/DCM97 series Electronic Load needs calibrating (M9712 for example)

- 1) Quickly press "shift", ▲, ▼, "Enter" in sequence, a prompt for entering an unlock key will be displayed;
- 2) First input the password '666' and press the key ENTER. Then the VFD display will show you CAL on the right;
- 3) Press the key V-SET to calibrate the voltage. Input the same voltage values as the readings (four readings in general) from the Keithley 2000 multimeter.  
 Input the reading UL-L=xxx, press the key Enter,  
 Input the reading UL-H=xxx, press the key Enter,  
 Input the reading UH-L=xxx, press the key Enter,  
 Input the reading UH-H=xxx, press the key Enter.  
 After you set the four readings, there is CALIBRATION showing on VFD display.
- 4) The calibration for voltage is finished after CALIBRATION is showing on the VFD display.

## 2.the steps to calibrate current



Power Supply for example LAB/HP or LAB/SMP

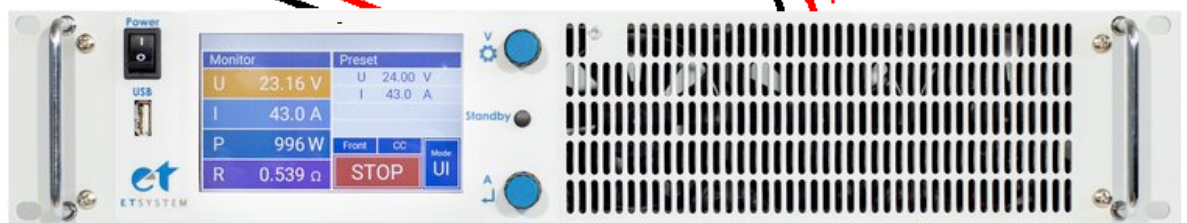
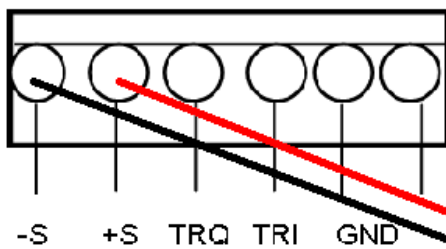


ELP/DCM97 electronic load needs calibrating (M9712 for example)

- 1) Quickly press "shift", ▲, ▼, "Enter" in sequence, a prompt for entering an unlock key will be displayed
- 2) First input the password '666' and press the key ENTER. Then the VFD display will show you CAL on the right;
- 3) Press the key I-SET to calibrate the current. Input the same current values as the readings (2 readings in general) from the M8851 DC power supply (or from the 5V/50A ammeter), press the key Enter;



Keithley 2000



ELP/DCM97 series electronic load needs calibrating (M9712 for example)

- 1) Quickly press "shift", ▲, ▼, "Enter" in sequence, a prompt for entering an unlock key will be displayed
- 2) First input the password '666' and press the key ENTER. Then the VFD display will show you CAL on the right;
- 3) Press the key P-SET to calibrate the voltage between the terminals -s and +s. Input the same voltage values as the readings (2 readings in general) from the Keithley 2000 multimeter. After you set the 2 readings, there is CALIBRATION showing on VFD display.
- 4) The calibration is finished after restart the instrument.