

S-S series SCR Power controllers 0-10V /0-5V input

signal calibration process

1. Hardware : changes on PCB board requitred for 4-20mA/0-20mA/POT to Linear Voltage Change the two chip resistors R38 and R41 in the PCB board to 22K and 6.2K respectively, connect R38 and R39 (far away from the two ends of the C16 chip capacitor). As shown below:



2. Software: 0-10V input signal calibration

Set LCK = 169, Press and hold Enter Button for 3 seconds, then set SET0 = 0000. Press and hold ENT button for 3 seconds To open input configuration menu please ENT + DOWN KEY together

2.1. Connect the 230V AC power supply to the two terminals AC1 and AC2 on the PCB board, the signal source (0-10V) is connected to the +/- two terminals of the PCB board, as shown in the figure below



2.2 . Press the "ENT key and the down key" at the same time to enter the INP parameter layer and change the INP parameter to 0-10. As shown below



2.3. After pressing the ENT key to enter the next parameter "ANL", the signal source is given a 0V signal. Press the < button one time, the OUT layer blinking, then press the UP button and Down button one time respectively, and press the ENT button to lock (this action is repeated twice). As shown below



2.4. After pressing the ENT key to enter the next parameter "ANH", the signal source is given a 10V signal. Press the < button one time, the OUT layer blinking, then press the UP button and Down button one time respectively, and press the ENT button to lock (this action is repeated twice). As shown below



2.5 . Press ENT to enter the next parameter "LSP" and set this parameter to 0 (default), then press ENT to enter the next parameter "USP" and set this parameter to 10 (default), as shown below



2.6. End of calibration.

3. Inspection and shielding

3.1 Inspection: After completing the above one and two steps, then to check signal input correctly. The inspection process as follows :

- 3.1.1. The signal sources are fed with 0 V/5V/10V signals
- The "IN" layer of the PCB board is displayed 0/5/10 respectively.
- The "OUT" layer of the PCB board is displays 0 /50 / 100 respectively .

3.1.2 . If the above operation finished , the 0-10V signal input inspection is correct.

As shown below :





3.2 Shielding

3.2.1 Press the ENT key and the UP key at the same time to enter the DLY parameter layer, find LOCK and set it to 169, as shown below



3.2.2 Press the ENT key for seconds to enter the SET0 layer parameters and set SET0 to 0001.



3.2.3 Return to the DLY layer key, set the LOCK parameter to 0 , end of shielding .



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