



ZERO & SPAN ADJUSTMENTS

The zero and span pots have been calibrated at the factory.

If it becomes necessary to readjust any of these pots, please use the procedure described here to achieve proper operation of your controller.

A load capable of drawing at least one Amp must be applied to the controller for proper operation and calibration.

NOTE: Voltage and/or current measurements on RMS controllers should be taken with meters that provide True RMS readings for maximum linearity and accuracy due to the chopped waveforms provided by the SCR controller. Measurements on Average controllers should be taken with meters that provide Average readings for maximum accuracy.

1. Apply a command signal to the command signal input.
2. Set the command signal to 10% (see chart) and adjust the **ZERO** potentiometer so that the voltage across the load is 10% of the desired maximum load voltage.
3. Set the command signal to 90% (see chart) and adjust the **SPAN** potentiometer so that the voltage across the load is 90% of the desired maximum load voltage. (Clockwise rotation of both the span and zero potentiometer will increase the load voltage)
4. Because the **ZERO** and **SPAN** adjustments may interact, it is recommended that steps 2 and 3 be repeated.

Command Signal	10% level	90%level
0 to 5 Vdc	0.5 Vdc	4.5 Vdc
0 to 10 Vdc	1.0 Vdc	9.0 Vdc
4 to 20 mAdc	5.6 mAdc	18.4 mAdc
Line Voltage	10% level	90% level
120 Vac nominal	12 Vac	108 Vac
208 Vac nominal	21 Vac	187 Vac
240 Vac nominal	24 Vac	216 Vac
300 Vac nominal	30 Vac	270 Vac
380 Vac nominal	38 Vac	342 Vac
415 Vac nominal	41 Vac	373 Vac
480 Vac nominal	48 Vac	432 Vac
575 Vac nominal	57 Vac	517 Vac

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