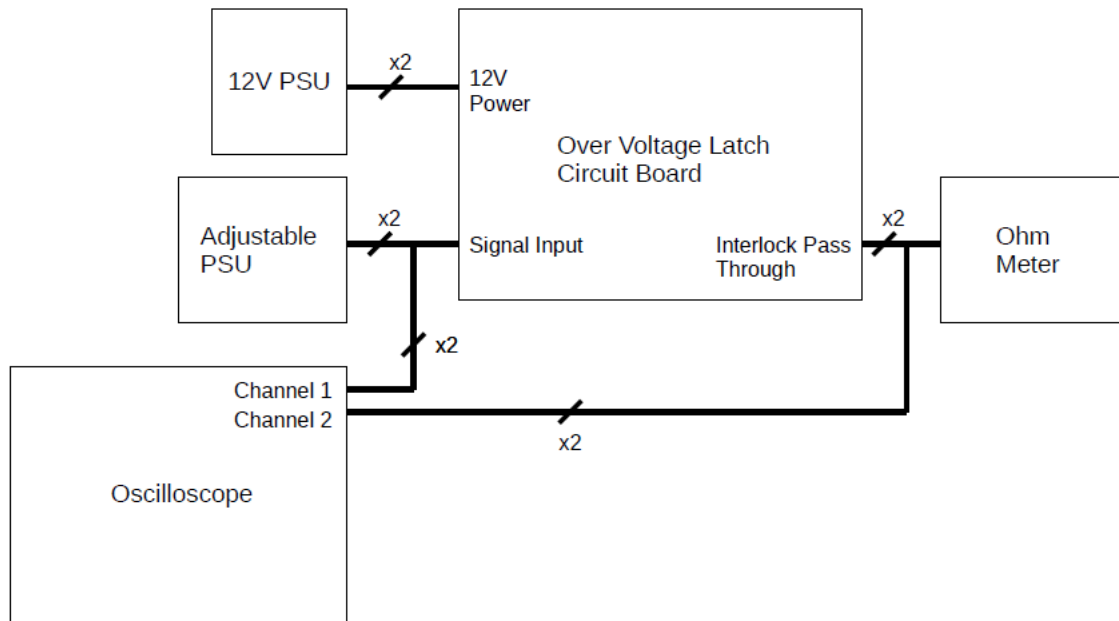


Over Voltage Latch Functional Test Method

Purpose: This describes the functional test for the over voltage latch.

Test Set Up Block Diagram:



Test Procedure:

1. Set the adjustable voltage reference to the threshold desired for the application using the potentiometer and test points on the circuit board.
2. Power up the circuit board using the 12V Power supply.
3. Set the adjustable power supply to a voltage lower than the threshold voltage.
4. Set the oscilloscope to trigger on the opening of the interlock relay using the signal coming from the ohm meter.
5. Increase the adjustable power supply until the ohm meter indicates that the circuit board has opened its interlock relay.
6. Use the oscilloscope to verify that the over voltage latch board tripped at the correct threshold and that it did so in less than 100ms.
7. Bring the adjustable power supply back down below the trip threshold.
8. Verify that interlock relay has been latched open.
9. Power cycle the 12V power supply and verify that interlock relay resets.