

GF-30ac: Setting the Pass / Fail point

Overview: The high current ground bond test is required by many European safety agencies. In this test, 25A* is passed through the grounding connection between the frame and the green wire grounding connection of the equipment being tested. The safety agencies do not include the resistance of the cables used to test the grounding circuit, and the following procedure allows this cable resistance to be ignored. The actual test cableset must be used for this setup. If the test cableset is changed, this procedure must be repeated.

*Minimum. If required the GF-30ac can be set to 30A by the factory as a no charge option; please advise at the time of the order. The GF-40ac is also available for 40A ground bond test requirements. The Pass/Fail point settings are the same for all testers.

Set the pass/fail point of 0.1 ohms on the GF-30ac Ground Bond tester

1. Safety Agencies set the 0.1 ohm pass/fail point ignoring the resistance of the connection cables. To set the GF-30ac to ignore the cable resistance, a simple setup is done **using the actual cables** you will use during the production line test. To perform this test, use the heavy duty (10AWG) Return lead and the 14AWG cordset packaged with the GF-30ac, and connect them to the front panel of the GF-30ac as shown below:



2. Take the other ends of the two wires and connect them to the 0.1 ohm resistor on the rear panel as shown below. We provide a connector for use between the ground of the cordset (middle connection) and the resistor with an alligator clip. In the next step you will use a screwdriver as shown to set the red and green lights on the front panel to light simultaneously.



3. As shown below, push the test button and hold it while turning the screwdriver from side to side to get both the red and green lights to come on at once. This will set the GF-30ac to indicate test results properly.

