



## **Installation Instructions**

### **Model: GP500-G**

1. Position din rail inside generator control panel for clearance and ease of wire installation. Drill four (4) holes for #10 screws and install rail(s). Snap Meg-Alert onto rail.
2. If a 2% meter option was ordered with the unit: Drill one (1) 2-3/4 inch diameter hole and three (3) 1/8 inch holes to match the meter. Mount the meter on the front panel of the generator control panel. If a 1-% meter was ordered use the pattern included with the meter. Drill one (1) 4-inch diameter hole and four (4) 3/8 inch holes.
3. If remote LED's are used, drill four (4) 1/8" holes and two (2) 1/2 inch clearance hole for the remote LED's. Mount the assembly using the mounting holes provided in the panel (panel is normally located near the meter indicator).
4. Install warning stickers (provided with Meg-Alert) on the terminal boxes of all equipment to be tested.
5. Connect the input terminals (1) and (2) to the input power source (see nameplate for the correct voltage). Install a normally closed control contact in the input lead to terminal to remove the power from the MEG-ALERT when the generator is operating.
6. Connect terminal (3) and (4) to 120 VAC generator control power source. (See nameplate for correct voltage.) If DC input is used observe correct polarity, terminal (3) is positive, terminal (4) in negative. Voltage should be present only when the generator is running.
7. Connect terminal (5), (6) and (7) to an alarm panel or PLC inputs, for remote alarm circuit.
8. Connect terminal (8), (9) and (10) to the voltage regulator input power to lockout the equipment after an alarm, if so desired.
9. Connect terminal (11-14) to remote LED's. Terminal (11) is the green LED positive output; terminal (12) is the red flashing LED positive output; and terminal (14) is the LED common.
10. Connect the (ground) terminal (15) to the mechanical ground of the equipment to be tested.
11. Connect the (test) terminal (16) to the B phase winding in an AC system or the positive lead in a DC system.
12. Connect terminal (31) and (32) to the meter. Observe correct polarity; terminal (31) is positive and terminal (32) is negative. (NOTE: When using 4-20 mA transducer option, wire transducer input in series with terminal (31).)
13. Connect terminal (17), (18) to terminal (3) and (4) on ground interrupter when used with grounded generators.
14. Proceed with the Operating Instructions.



## Operation Instructions

### Model: GP500-G

1. After installation is complete on the unit, apply voltage to the Meg-Alert. Observe the green “TEST ON” LED and meter indicator.
  - A. Start the generator being tested and observe that the “TEST ON” green LED will be off, and the meter indicator will read to infinity.
  - B. Stop the generator, the green “TEST ON” LED should be illuminated, and the meter indicator will now read the value of the generator’s insulation condition.
2. Press the test button at this time to check proper operation of the Meg-Alert and to see if the meter is calibrated correctly. Hold the test button for approximately 10 to 15 seconds. The meter indicator should first go to the cal. /test position and the Meg-Alert should trip on an alarm condition. The red “ALARM” LED should start flashing; while the green “TEST ON” LED should be off. The alarm and lockout contacts should now have changed state showing an alarm and preventing the generator from operating if the lockout circuit is used.
3. Press the reset button and the Meg-Alert should return to a test condition. The red “ALARM” LED should stop flashing; while the green “TEST ON” LED should be illuminated. The meter indicator will now be showing the insulation value of the generator being tested.
4. IF REMOTE LED’S ARE USED WITH THIS UNIT: Repeat steps 1 and 2 and observe their operation to make sure that they coincide with the internal LED’S.
5. If a ground interrupter is used with the system, proceed to the ground interrupter operating instructions.

**WARNING:**

Before servicing any equipment being tested with a Meg-Alert system, one must turn off and lockout the Meg-Alert power and short the windings to ground in order to remove any possible capacitive charge that may be present in the unit.