



Installation Instructions
Models: GP500-2G/4G/6G

1. Drill four(4) $\frac{1}{8}$ inch holes and mount the Meg-Alert power supply, using the mounting holes in the bracket assembly.
2. Drill one(1) 4 inch diameter hole and four(4) $\frac{3}{8}$ inch holes, and mount the meter indicator in the front panel of the MCC or generator control panel. (Use the drill hole pattern provided with the meter).
3. Drill four(4) $\frac{1}{8}$ inch holes and cut out a 6"x 7" clearance hole for the remote switching unit. 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 the Meg-Alert on the terminal boxes of all equipment to be tested.
5. Connect TB10 input terminals (1) and (2) to the input power source. (See nameplate for the correct voltage). If DC input is used, observe the correct polarity; terminal (1) is positive, and terminal (2) is negative.
6. Connect TB10 terminals (3) and (4) to RAC system, when it is supplied with the Meg-Alert.
7. Connect TB10 terminals (5) and (6) to the meter indicator. Observe the correct polarity: terminal (5) is positive, and terminal (6) is negative.
8. Connect TB10 terminal (7) to the common ground of equipment being tested. If no common ground exists, connect to each equipment ground. Use an additional remote terminal block if necessary.
9. Connect 25-pin cable provided with Meg-Alert to connector on the Meg-Alert power supply and switching unit.
10. IF SAFETY LOCKOUT IS REQUIRED: Connect TB1 terminals (1) and (2) on each individual generator plug to interrupt one side of the voltage regulator power input as shown on drawing #1010.
11. Connect TB1 terminals (3), (4), and (5) to a remote alarm or PLC as shown on drawing #1010.
12. Connect TB1 terminal (6) to neutral or B phase of the generator windings. NOTE: All generators on a common buss must be tested at the same phase to prevent voltage potential at the Meg-Alert power supply.
13. Connect TB1 terminals (7) and (8) to terminals (3) and (4) on the ground interrupter as shown on drawing #1010 if one is used with the system.
14. Connect TB1 sensing terminals (9) and (10) to the generator side of the circuit breaker to obtain 120 VAC when the generator is running. NOTE: A step down transformer may be needed on 480 and 600-volt systems.



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15. Connect TB1 terminal (11) to the corresponding terminal for that generator on the switching unit terminals (1) and (3) as shown on drawing #1010.

NOTE:

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 presented in the unit.



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1. After installation is complete on the unit, apply voltage to the Meg-Alert power supply and observe the flashing yellow test LED on the switching unit and the meter indicator.
2. Place the switching unit into manual and select each piece of equipment (while it is idle) to see that the yellow (test) LED flashes and the meter indicator shows the value of the insulation. The yellow (test) LED must be flashing to indicate that the generator is being tested. NOTE: On initial start-up, it may be necessary to step through all positions on the digital display before a complete numeral is displayed.
3. Start each generator. Then select it with the switching unit to see that the yellow (test) LED does not flash. This indicates that the generator is running and is not being tested.
4. Stop each generator and select that generator position on the switching unit. Then press the test button for approximately 10 seconds. The meter should go to the test/cal position and the Meg-Alert should go into a fault condition. The corresponding red LED on the switching unit should start flashing. The alarm/lockout contacts will now have changed state for that generator, which indicates that all systems are operating properly. Release the test button.
5. Press the reset button to clear the fault condition. The red LED should stop flashing. NOTE: The generator must be selected by the switching unit and the yellow (test) LED must be flashing before it can be reset.
6. Repeat steps 4 and 5 for each generator to ensure all circuitry is operating correctly.
7. **If ground interrupters are used with this system:**
 - A. They should be tested by first removing one of the fuses (F1) in the ground interrupter and then start that unit's generator. Press the safety bypass switch (if used) and hold until the voltage comes up on the generator. The ground closed light will not illuminate. In approximately (2) to (3) seconds, the Meg-Alert will fault that generator. The voltage will then fall off if the voltage regulator power circuit has been interrupted by the lockout circuit. It is not necessary for a generator to be selected for test to have it trip on a ground interrupter fault. However, it is necessary to select that unit and press the rest button to clear the fault and restore the unit to operational status.
 - B. Stop the generator, replace the fuse, and restart the generator. It is always necessary to press the safety bypass button momentarily when starting the generator, if the bypass safety circuit is used. As soon as the voltage comes up on the generator the ground closed lamp will light, which indicates that the ground circuit is completed. The safety bypass switch may be released at this time if it is being used.
 - C. The generator is now ready to operate
 - D. Repeat this process for each individual ground interrupter to ensure all systems are wired and operating correctly.



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8. Place the switching unit into AUTO and observe the generator selecting display. The switching unit should select each generator at a preset time interval, which is usually about 30 seconds. If a generator is producing voltage, the Meg-Alert will not test it.

9. When it reaches the last unit it will select ZERO, which is a blank position. The cycle will then be repeated until the unit is placed into the manual mode.

NOTE:

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 presented in the unit.