



Installation Instructions

Model: GP500-M/DC

1. Drill four(4) 1/4-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) 3/8-inch holes, and mount the meter indicator in the front panel of the MCC. (Use the drill hole pattern provided with the meter).
3. (Optional) Drill four(4) 1/8-inch holes and drill a 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 the Meg-Alert on the terminal boxes of all equipment to be tested.
5. Connect 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 terminals (3) and (4) to RAC system, when it is supplied with the Meg-Alert. This option is used to provide an RS232 output to a computer monitoring system. Use shielded wire.
7. Connect terminals (5), (6), and (7) to the voltage regulator power source to lockout the motor/generator from operating after an alarm condition has been detected, if so desired.
8. Connect terminals (8), (9), and (10) to an alarm panel or PLC inputs, to indicate when an alarm condition has occurred.
9. (Optional – if control voltage signal is used): Connect sensing terminals (11) and (12) to control power source. (See nameplate for correct voltage). If DC relay is used, observe the correct polarity; terminal (11) is positive and terminal (12) is negative. Voltage should be present only when the generator is running.
10. (Optional) Connect terminals (13), (14), and (15) to remote LED's. Terminal (13) is the positive yellow LED, terminal (14) is the common, and terminal (15) is the positive red LED.
11. Connect terminal (16) and (17) to the meter indicator. Observe the correct polarity; terminal (16) is positive and terminal (17) is negative. If no meter is used, then a jumper must be installed between terminals (17) and (18). Use shielded wire.
12. Terminals (19) and (20) are not used.
13. Connect the (TEST) terminal lead to the positive lead in a DC winding at the motor contactor or the D.C. generator breaker
14. Connect the (GROUND) terminal to the mechanical ground of the equipment to be tested.
15. Proceed with the operating instructions.



Operation Instructions

Model: GP500-M/DC

1. After installation is complete on the unit, apply voltage to the Meg-Alert. Observe the flashing yellow test LED and the meter indicator. Start the motor/generator being tested and observe that the yellow LED stops flashing, and the meter will read to infinity. Stop the motor/generator being tested, the yellow LED should begin flashing, and the meter will read the value of its insulation strength.
2. With the motor/generator off, press the test button 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 go into the test position and the Meg-Alert should trip on an alarm condition. The red LED should start flashing, while the yellow LED should stop flashing. The alarm and lockout contacts should now have changed state showing an alarm and preventing the motor/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 LED should stop flashing, while the yellow LED should start flashing. The meter indicator will now be showing the insulation value of the motor/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. The system is now ready for normal operation.

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.