



Installation Instructions

Models: GP1000/2500/5000-M

1. Drill four (4) $\frac{1}{4}$ inch holes and mount the Meg-Alert power supply, using the mounting holes in the bracket assembly. (The power supply must be located in the high voltage compartment and should be mounted vertically for best ventilation and heat transfer).
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. (use the drill hole pattern provided with the meter).
3. Drill four (4) $\frac{1}{8}$ inch holes and cut out a $3\frac{1}{2}$ " x $4\frac{3}{4}$ " clearance hole for the 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 motor terminal lead boxes and motor starter cabinet door of all the equipment to be tested.
5. Connect the input terminal (1) and (2) to the input power source (see nameplate for the correct voltage). *NOTE: 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 the RAC system, when it is supplied with the Meg-Alert. *NOTE: 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 motor starter circuit to lockout the equipment, if so desired. (See wiring diagram).
8. Connect terminals (8), (9) and (10) to an alarm panel or PLC inputs for an alarm signal. (See wiring diagram).
9. Terminals (11) and (12) are used for optional LED outputs.
10. Connect remote LED terminals (13), (14) and (15) to remote LED assembly terminals respectively. Terminal (13) is the positive yellow (test) LED, terminal (14) is the common, and terminal (15) is the positive red flashing (alarm) LED. (See remote LED/switch wiring diagram for wire color codes).



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11. Connect terminal (16) and (17) to the meter indicator. Observe the correct polarity; terminal (16) is positive and terminal (17) is negative. *NOTE: Shielded wire must be used.*
12. Connect remote system terminals (18), (19) and (20) to the remote LED/Switch assembly test terminals respectively (see remote/LED switch wiring diagram for wire color codes).
13. Connect reset terminals (21) and (22) to the remote LED/Switch assembly terminals respectively (see remote LED/switch wiring diagram for wire color codes).
14. If control voltage signal is used, connect sensing terminals (23) and (24) to control power source. (see nameplate for correct voltage). If DC relay is used, observe correct polarity; terminal (23) is positive and terminal (24) is negative. *NOTE: Voltage should be present only when the motor is running.*
15. Connect the (ground) terminal to the mechanical ground of the equipment to be tested.
16. Connect the (test) terminal HV lead to the B phase of the windings to be tested (See note below).

NOTE:

A 20 gauge 15KVDC rated wire (furnished with the unit) must be used for the high voltage lead connection. The test lead will be furnished with a high voltage plug at one end and a high voltage current limiting resistor at the other end. The high voltage fuse block assembly should be installed in this test lead as close as possible to the current limiting resistor. *NOTE: The current limiting resistor and fuse block assembly are not included with the GP1000-M.* The current limiting resistor must be installed at the point of connection to the motor windings.



Operation Instructions

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1. After installation is completed on the unit, apply voltage to the Meg-Alert. Observe the green (power on) LED should be illuminate on the power supply..
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 go to the test position, and the Meg-Alert should trip on an alarm condition. The remote red LED should start flashing, while the remote yellow LED should stop flashing. The alarm and lockout contacts should now have changed state showing an alarm and prevent the motor from starting if the lockout circuit is used. The use of these lockout contacts is recommended for preventing the equipment from starting in an alarm condition. They may also be used for an alarm system signal if lockout is not desired.
3. Press the reset button and the Meg-Alert should return to a test condition. The remote red (alarm) LED should stop flashing, and the yellow (test) LED will now be illuminated. The meter indicator will now be showing the insulation value of the motor being tested. *NOTE: The green (power on) LED will always be illuminated when power is applied to the input terminals.*
4. Start the motor being tested and observe that the yellow (test) LED is now **not** illuminated, indicating that the motor is running and the Meg-Alert has stopped testing. The meter will now read all the way to infinity.
5. Stop the motor being tested and observe that the yellow (test) LED should now be illuminated. The meter indicator will now read the value of the motor's insulation strength. The Meg-Alert is now in a test condition and 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.