



Installation Instructions

Ground Interrupter

Models:

GP400-GIO/GIC, GP600-GIO/GIC

GP010-GIO/GIC, GP050-GIO/GIC

1. Mount the ground interrupter using the four (4) mounting studs provided on the corners of the backpan. The ground interrupter is to be located at the single point where the generator neutral lead is terminated to ground, and no other ground points may exist in the system.
2. The ground interrupter must be mounted with the contactor in the vertical position. Directional mounting arrows are provided on the backpan (except on GP010 and GP050 models).
3. Connect voltage safety circuit sensing terminals (1) and (2) to the generator output on the generator side of the breaker to obtain 120 VAC whenever the generator is running. NOTE: A transformer may be required to step down the sensing voltage to 120 VAC and this circuit should not be fused).
4. Connect terminals (3) and (4) to the AUX trip terminals (19) and (20) on the GP500-G models; terminals (18) and (21) on the GP2500/5000-G models; or to terminals (7) and (8) on the GP500-2G/6G models; or to an 86 relay to shut down generator if ground contactor does not close.
5. Terminals (5) and (6) are optional for Ground Open Light when required.
6. A. On GIC Models connect terminals (7) and (8) to a constant 120 VAC source
B. On GIO Models connect terminals (7) and (8) directly to a generator 120 VAC output on the generator side of the breaker. A transformer may be required in some cases to step down the generator output to 120 VAC (See Wiring Diagram).

NOTE: The input power for terminals (7) and (8) should come from a separate generator source other than where terminals (1) and (2) obtain their input. This will allow power to be maintained on the safety system in the event power is lost at terminals (7) and (8) and the contactor did not close while the generator is being operated. The safety system would then lock out the generator through the Meg-Alert and prevent it from operating in an ungrounded state.

7. Connect terminals (9) and (10) to a remote ground closed lamp. One is provided with the system (See Wiring Diagram).



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8. Disconnect the generator neutral lead(s) from the ground point and re-connect the lead(s) to the buss bar marked "neutral" on the ground interrupter assembly. NOTE: All other ground connections on the generator side of the breaker should also be moved to this "neutral" buss bar and on the GP010 model, connections are made directly to the GI contactor.

9. Connect cable(s), rated the same as what is used in the generator neutral, to the buss bar marked "ground" on the ground interrupter and to the ground point in the system. NOTE: No other ground points should exist in the system.

11. Proceed with Operating Instructions.



Operating Instructions Ground Interrupter

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1. After installation is completed on the Meg-Alert, on GIO models the ground interrupter should be tested by first removing one of the fuses (F1) in the ground interrupter and then start that Meg-Alert's generator. On GIC Models install a temporary jumper between Ground Interrupter terminals (6) and (8) and then start the generator.
2. The generator should build up voltage, the GI contactor should not close, and the ground-closed light should not illuminate.
3. In approximately 4 to 6 seconds, the Meg-Alert should go into an alarm and lockout the voltage regulator power circuit or the system 86 relay will trip and shut down the generator. The generator voltage should then fall off and be locked out by the Meg-Alert or the 86 relay circuit. Stop the generator before proceeding.

NOTE: On multiple model Meg-Alerts it is not necessary for the generator to be selected by the switching unit to trip that unit out on a ground interrupter fault. However, it is necessary to select the generator in alarm before pressing the reset button to restore that generator to normal operational status. On single model Meg-Alert systems, simply press the reset button.

4. On GIO Models, replace the (F1) fuse, reset the Meg-Alert and then restart the generator. On GIC models remove the jumper between terminals (6) and (8) and then re-start the generator. The generator should now build voltage and the GI contactor should close, and the ground-closed light will be illuminated.
5. The system is now ready for normal operation. On multiple model Meg-Alert systems, repeat this process for each individual ground interrupter to ensure all systems are wired and operating correctly.

CAUTION:

The ground interrupter contactor should be cleaned and tested periodically to ensure a good ground is established when the contactor is closed. The auxiliary contacts should also be cleaned and checked to ensure they are in good operating condition.