



# Installation Instructions

## Model: GP500-M

1. Position din rail inside motor starter housing for clearance and ease of wire installation. Drill two (2) holes for #10 screws and install rail(s). Snap Meg-Alert onto rail.
2. Installation for 2% meter: Drill one (1) 2-<sup>3</sup>/<sub>4</sub> inch diameter hole and three (3) <sup>1</sup>/<sub>8</sub> inch holes to match the meter. Mount the meter on the front panel of the MCC or generator control panel. If a 1% meter was ordered with the unit: Use the pattern included with the meter. Drill one (1) 4 inch diameter hole and four (4) <sup>3</sup>/<sub>8</sub> inch holes.
3. Install warning stickers (provided with the Meg-Alert) on terminal boxes of equipment to be tested.
4. Locate a dry normally closed auxiliary contact on the motor starter contactor (one may need to be installed). Wire one side of the input power through the normally closed contact to terminal (1). Wire the other side of the input power to terminal (2). (See wiring diagram).
5. Connect terminals (3) and (4) to RAC system (optional) when it is supplied with the Meg-Alert.
6. Connect terminals (5), (6), and (7) to an alarm panel or PLC inputs, if required.
7. Connect terminals (8), (9), and (10) to the motor starter circuit to lockout the equipment after an alarm, if so desired.
8. Connect the (ground) terminal (15) to the mechanical ground of the equipment being tested.
9. Connect the (test) terminal (16) to the B phase winding in an AC motor system, or the positive lead in a DC motor system.
10. Connect terminals (31) and (32) to the meter. Observe correct polarity; terminal (31) is positive and terminal (32) is negative. *NOTE: When using 4-20mA transducer option, wire transducer input in series with meter connections. (see drawings)..*
11. Proceed with operating instructions.



# Operating Instructions

## Model: GP500-M

1. After installation is completed on the unit, apply voltage to the Meg-Alert. Observe the green “TEST ON” LED (’s) and meter indicator.
  - A. Start the motor being tested and observe that the “TEST ON” green LED will not be illuminated and the meter indicator will read all the way to infinity.
  - B. Stop the motor, the green “TEST ON” LED should be illuminated, and the meter indicator will now read the value of the motor’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 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 not be illuminated. The alarm and lockout contacts should now have changed state showing an alarm and preventing the motor from starting if the lockout circuit is used.
3. Press the reset button. 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 motor being tested.

**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 motor windings to ground in order to remove any possible residual capacitive charge that may be presented in the unit.