



## MOTOR guard™

- AC Induction Motors
- AC Synchronous Motors
- DC Motors
- Wound Rotor Motors
- Servo Motors
- Submersible Motors



**Reduce Risk  
to Save Lives**



Automatic Insulation Resistance Tester that monitors and protects critical-duty motors

### FEATURES: Model GP500-4M/9M

- Multiple Motor Model (9 motors max.) (AC/DC)
- Adjustable Auto/Manual scanning with digital display
- Adjustable alarm set point
- Individual latching alarm contacts with manual reset
- Fused input and test lead
- Individual removable test point terminal blocks
- 500 VDC test voltage
- Calibration and system test switch
- Long-life, flashing LED display w/ 10 ft. cable
- 1% meg-ohm meter with color coded 4" dial
- 10 Year Warranty

### Optional Features

- Remote cal/test and reset switch
- Adjustable common pre-alarm set point
- 4-20 mA transducer with relay assembly

### SPECIFICATIONS: Model GP500-4M/9M

Input Voltage: 120/240 VAC 50/60 Hz or 24 VDC

Input Current: .24 A @ 120 VAC or .90 A @ 24 VDC

Test Voltage: 500 VDC @ 200  $\mu$ A max.

Maximum Line Voltage: 600 V RMS

Control Sensing: N/C Contact

Alarm Time Delay: 0 - 15 Seconds

Scan Time: 0 - 60 Seconds

Alarm Contact: 1 Form C, 5A @ 240 VAC or 28 VDC (per test point)

Lockout Contact: 1 N/C, 5A @ 240 VAC or 28 VDC (per test point)

Common Pre-Alarm Contact: 1 Form C, 5A @ 240 VAC or 28 VDC (Optional)

LED Display with digital channel indicator:

Test: Yellow

Alarm: Red

Pre-Alarm: Yellow Flashing (Optional)

Meter Output: 1% Analog Signal

Accuracy: 1% Overall

Ambient Temperature: -20° F to 140° F

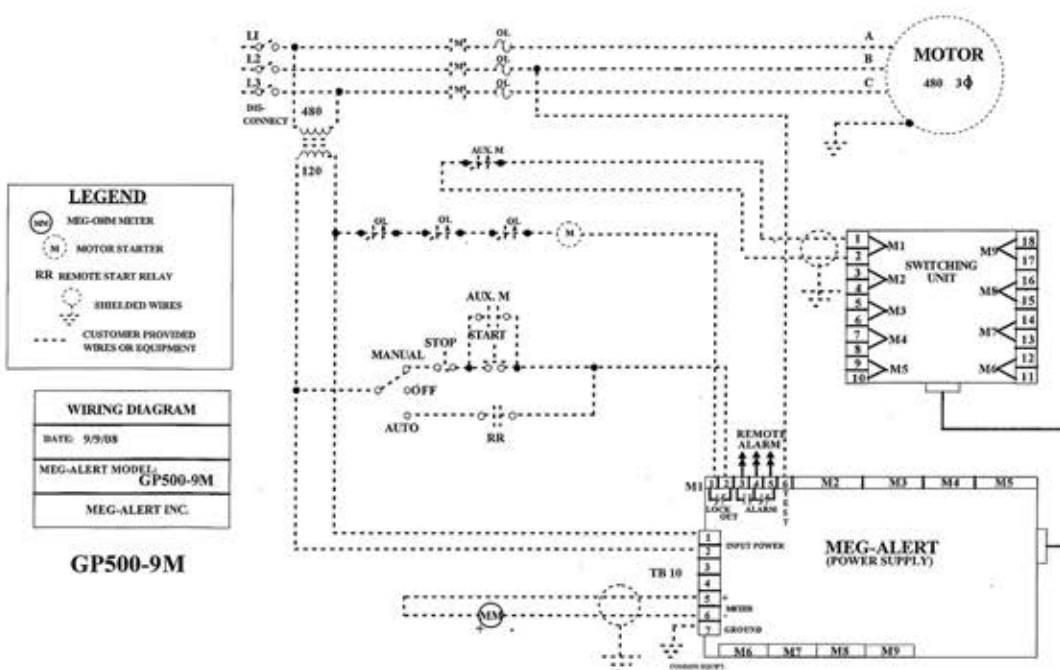
Size: Power Supply - 4" H x 11" W x 8" D

Switching Unit - 7" H x 7" W x 1" D

Weight: 6 lbs.

### Operation:

MotorGuard applies a current limited, fixed DC voltage to the motor windings during idle periods. A solid state comparator circuit monitors measured leakage current to the ground. Two adjustable set points, factory preset to customer specifications, can be programmed to signal a pre-alarm, alarm and lockout the equipment from operating if the low set point is exceeded. The manual reset feature enables a return to operational status only after the alarm condition has been corrected. MotorGuard will not impair normal operation of the equipment being monitored.



### Typical Wiring Diagram

In addition to a wide variety of standard in-stock systems, our engineers will work with you on custom applications. Call the factory for details.



1.877.467.6372  
www.hornerindustrial.com

U.S. Patent 5,514,967 - Patents Pending