

MOTOR guard™

M O T O R & G E N E R A T O R P R O T E C T I O N

Because Motor Failure is Not an Option.

Unscheduled equipment downtime can ruin your day and your production schedule. Moisture, contamination and heat combine to break down



Photo courtesy of Marathon Electric Manufacturing Corporation.

motor winding insulation, shorten motor life, and threaten your critical processes with catastrophic motor failure.

Motor Guard is an automatic insulation resistance tester that monitors and protects critical-duty motors. Originally offered in medium voltage designs for protecting expensive 2400V and 4160V motors,

Motor Guard is now available in a cost effective 480 volt design. This low voltage design tests the integrity of motor winding insulation during idle cycles and triggers alarms to



signal unsafe conditions. Maintenance personnel can then initiate early corrective action before motor failure occurs, avoiding costly downtime.



Model GP500

The U.S. Navy and the U.S. Coast Guard use **Motor Guard** to protect on-board motors and generators because in their critical operations – motor failure is not an option. Most oil and gas platforms in the Gulf of Mexico use **Motor Guard** technology to protect their motors and generators for the same reason. Meg-Alert™ is proud to introduce this patented, cost effective, and proven technology to the industrial market place.

Value Added Benefits

- Reduced downtime of critical processes
- Reduced maintenance staff time and cost
- Significant safety improvement
- Increased operating efficiency
- Extended motor life
- Planned motor reconditioning vs. motor rewind

MEG alert™

(800) 778-5689

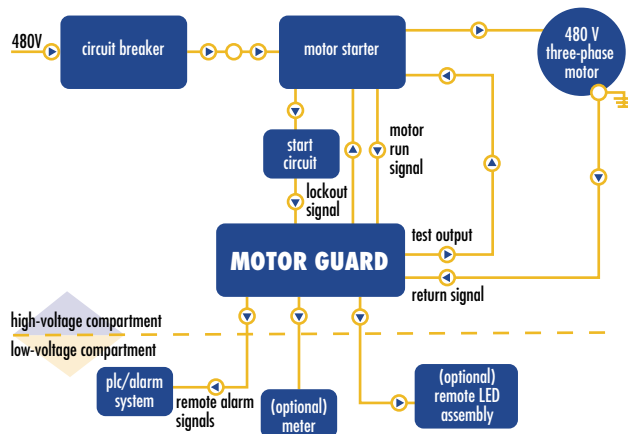
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Standard Features:

- Auto/manual test operation
- Flashing L.E.D. display with test and fault indication
- Adjustable alarm/fault setpoint with latching contacts and manual reset capability
- Full 500 VDC test voltage
- Fused input and H.V. test leads
- Compact, lightweight enclosure with terminal guard and dust cover
- DIN rail mounting bracket
- Shock and vibration resistant construction
- Five year limited warranty
- Remote L.E.D. display and nameplate (optional)
- 1% or 2% switchboard meg ohm meter M/MU models only

Operation:

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



Motor Guard GP500 Specifications:

Input Power:	115-125 VAC 50/60 Hz @ .05 A max.
Test Voltage:	500 VDC @ 200 uA max.
Alarm Contacts:	5A @ 240 VAC or 28 VDC
Lockout Contacts:	5A @ 240 VAC or 28 VDC
L.E.D. Display:	Test on: green (flash); Fault: red (flash)
Control Accuracy:	2% overall
Ambient Temp.:	-14°F to 140°F
Dimensions (Inches):	H 2.75 x W 2.25 x D 4.50
Weight:	1 lb.
Assembly:	Meets UL 508 specifications

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

Model # Code:

GP - 500 - 9 - M

<p>Meg-Alert General Product Family</p>	<p>Tester Voltage 500 = 500 VDC 1000 = 1000 VDC 2500 = 2500 VDC 5000 = 5000 VDC</p>	<p>No # = Single Motor or Generator Insulation Tester 2 = Automatic 2 Motor or Generator Insulation Tester 4 = Automatic 4 Motor or Generator Insulation Tester 6 = Automatic 6 Motor or Generator Insulation Tester 8 = Automatic 8 Motor Insulation Tester 9 = Automatic 9 Motor Insulation Tester</p>	<p>No Letter = Motor Guard Go/No Go Tester M = Motor Guard Motor Insulation Tester G = Gen Guard Generator Insulation Tester BT = Bench Tester D/C = DC Motor Insulation Tester MU = Special Model for Utilities</p>
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Also Available from Meg-Alert:

Gen Guard™ is patented technology for protecting low and medium voltage generators.



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