

# GEN guard™

MOTOR & GENERATOR PROTECTION

## Because Generator Failure is Not an Option.

Unscheduled generator downtime can ruin your day, destroy your production schedule, and put lives at risk. Moisture, contamination and heat combine



Courtesy of Kato Engineering

to break down generator winding insulation, shorten generator life, and threaten your critical processes with catastrophic generator failure.

**Gen Guard** is an automatic insulation resistance tester that monitors and protects the electrical side of critical-duty generators.

Originally offered in medium voltage designs for protecting expensive 2400V and 4160V generators, **Gen Guard** is now available in a cost effective 480 volt design. This low



voltage design tests the integrity of generator winding insulation during idle cycles and triggers alarms to signal unsafe conditions. Maintenance personnel can then initiate early corrective action before generator failure occurs, avoiding costly downtime.



GP-500-G



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

*Gen Guard provides protection for the electrical side of your engine generator set. Many people focus on protecting just the engine side of the system. But when winding insulation fails, for whatever reason, your generator set fails. We've designed and built Gen Guard with the idea that generator failure is not an option.*

*Rick Zelm  
President*

### Value Added Benefits

- Increased reliability of stand-by generators
- Reduced maintenance staff time and cost
- Significant safety improvement
- Increased operating efficiency
- Extended generator life
- Planned generator reconditioning vs. generator rewind

**MEG alert™**

**(800) 778-5689**

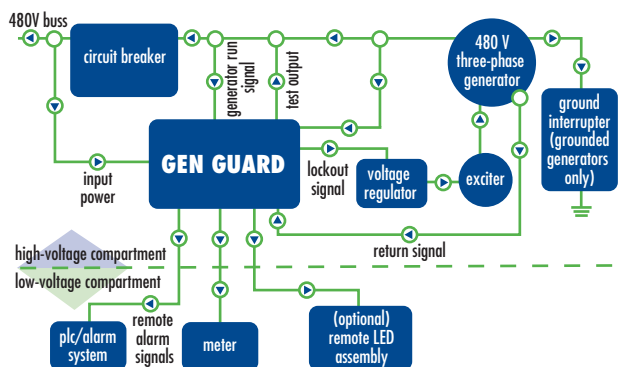
**www.megalert.com**

## 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)
- 2% switchboard meg ohm meter
- 1% switchboard meg ohm meter (optional)

## Operation:

**Gen Guard** applies a current limited, fixed DC voltage to the generator's 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. **Gen Guard** will not impair normal operation of equipment being monitored.



## Gen Guard GP500-G Specifications:

<b>Input Power:</b>	115-125 VAC 50/60 Hz @ .15 A max.
<b>Test Voltage:</b>	500 VDC @ 200 uA max.
<b>Alarm Contacts:</b>	5A @ 240 VAC or 28 VDC
<b>Lockout Contacts:</b>	5A @ 240 VAC or 28 VDC
<b>L.E.D. Display:</b>	Test on: green (flash); Fault: red (flash)
<b>Control Accuracy:</b>	2% overall
<b>Ambient Temp.:</b>	-14°F to 140°F
<b>Dimensions (Inches):</b>	H 2.75 x W 6 x D 4.50
<b>Weight:</b>	1.5 lbs.
<b>Assembly:</b>	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 - 4 - G - 2			
<b>Meg-Alert General Product Family</b>	<b>Tester Voltage</b> 500 = 500 VDC 1000 = 1000 VDC 2500 = 2500 VDC 5000 = 5000 VDC	<b>No # =</b> 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	<b>No Letter =</b> Motor Guard Go/No Go Tester <b>M =</b> Motor Guard Motor Insulation Tester <b>G =</b> Gen Guard Generator Insulation Tester <b>BT =</b> Bench Tester <b>DC =</b> DC Motor Insulation Tester <b>MU =</b> Special Model for Utilities <b>RG =</b> Resistive Grounded Generator Model
			<b>No Number =</b> Ungrounded 1 = 1000 KW & Below 800A NO Grd. Int. 2 = 1000 KW & Below 800A NC Grd. Int. 3 = 1000 KW & Above 1200A NO Grd. Int. 4 = 1000 KW & Above 1200A NC Grd. Int. 5 = Resistive Grounded 30A NO Grd. Int. 6 = Resistive Grounded 30A NC Grd. Int.



## Also Available from Meg-Alert:

**Gen Guard™** offers patented technology for protecting medium voltage generators.

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