**INSTALLATION**

Simply attach GalvanAlert to your existing 30 Amp shore power inlet and cord for constant monitoring when plugged into shore power. GalvanAlert is equipped with a threaded ring for use with standard threaded inlets.

**STORAGE & CARE**

GalvanAlert is intended for use outdoors. To prolong its life, store indoors when not in use. The metallic parts of GalvanAlert are made to resist corrosion. In a salt-water environment, life of the product can be increased by periodically cleaning the exposed parts with fresh water, drying and spraying with a light, moisture-displacing lubricant.

**TECHNICAL INFORMATION**

**How does GalvanAlert work?**

GalvanAlert attaches to your shore power inlet and your cordset. The unit incorporates sensor-based technology and circuitry that monitors unsafe galvanic corrosion or stray corrosion currents passing through the “green” ground wire of your shore power system. Some galvanic corrosion current in a marine environment is considered normal and cannot be prevented. GalvanAlert warns you when there is medium to high corrosion activity, so you can take action to prevent excessive deterioration of your underwater fittings.

**Does GalvanAlert prevent corrosion?** No. GalvanAlert only detects corrosion, so you can take appropriate measures to prevent serious damage.

**Does GalvanAlert always detect corrosion?** No. GalvanAlert detects corrosion currents if they are passing through the ground wire of your shore power system. There can be cases of very serious stray current corrosion activity that may not be passing through the shore power ground wire - such as with an electrical problem that is contained within the boat itself. In such instances, currents may not be detected by GalvanAlert, much like they would not be blocked by a galvanic isolator or isolation transformer. Also note that GalvanAlert does not indicate low corrosion activity which is considered normal. This is why GalvanAlert does not have a “Low Activity” LED.

**Why GalvanAlert if I have a galvanic isolator?**

Galvanic isolators only protect against galvanic action. They will not block block corrosion currents in excess of 1.5 volts that can be highly destructive to your connection point - so you can detect such currents so you can protect your boat when galvanic isolators do not.

**What is reverse polarity?**

Reverse polarity means that the hot and neutral wires of your AC shore power system are reversed. This normally indicates an incorrectly wired shore power system and can present a fire and shock hazard. GalvanAlert provides reverse polarity indication at the connection point - so you can immediately disconnect from shore power if needed. GalvanAlert can also be used to test reverse polarity at the shore power center before connecting to shore power.

**What is marine corrosion?**

Marine corrosion is an electrochemical reaction that occurs when electrons flow between dissimilar metals that are connected or grounded through water. This electrical action causes one of the two metals to be eaten away. Marine corrosion affects the longevity of your boat engine, exhaust system and sterndrive. Marine corrosion is a fact of life. It is almost impossible to prevent all galvanic action, and installing sacrificial zincs is a common way to minimize the problem.

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**TECHNICAL INFORMATION**

**How does GalvanAlert work?**

GalvanAlert attaches to your shore power inlet and your cordset. The unit incorporates sensor-based technology and circuitry that monitors unsafe galvanic corrosion or stray corrosion currents passing through the “green” ground wire of your shore power system. Some galvanic corrosion current in a marine environment is considered normal and cannot be prevented. GalvanAlert easily attaches to your existing 30A shore power inlet and cordset to constantly monitor if there is unsafe corrosion activity or if a reverse polarity condition exists – so you can act before it’s too late. GalvanAlert can save you thousands of dollars in costly damage to your boat!

**FEATURES**

**MARINE CORROSION DETECTOR** -- Alerts you of unsafe marine corrosion activity that can cause extensive and costly damage to your boat.

**REVERSE POLARITY INDICATOR** -- Detects reverse polarity in your shore power system that can create a shock or fire hazard.

**POWER INDICATOR LIGHT** -- Glows Green to show when power is on.
**How quickly can corrosion occur?** This depends on many conditions. The corrosion process is accelerated in salt waters, brackish waters, or in waters with a high mineral content, and conductivity goes up with water temperature.

**What is the difference between galvanic and stray current corrosion?** Galvanic currents happen due to the differing voltage potential of metals present on boats, such as props, shafts, anodes, etc. The current flow increases when you connect to shore power. Stray currents are highly destructive DC currents, which flow from leaky shore power supplies, defective wiring, or leaky bilge switches.

**Galvanic corrosion**

All hulls in water are subject to some galvanic corrosion. Place two different metals in seawater, connect them with a wire and current will flow from one to another. When current starts to flow between two metals one of them will pay the price. Metal particles from the basic metal will deposit themselves on the noble (more corrosion-resistant) metal. Eventually the basic metal will corrode away.

**Stray current corrosion**

Galvanic corrosion activity usually progresses slowly, sometimes taking months or years before serious corrosion is apparent. Stray currents, on the other hand, can be thousands of times greater and can destroy expensive components in hours. Common causes include a bare wire in the bilge or incorrectly wired or installed equipment.

**Corrosion activity is not uncommon; however accelerated corrosion activity will deplete** zinks (sacrificial anodes) faster than normal. This may lead to serious damage running gear and/or other underwater metal components. A likely cause of the corrosion current is a neighboring vessel. Consider adding a galvanic isolator to block marine corrosion current. Check your vessel frequently to ensure that it is equipped with sufficient sacrificial anodes. Ensure that these anodes are clean and free of scale and marine growth.

**Rev Polarity LED is On [Red Light]**

**WHAT DOES IT MEAN?**

CAUTION! Polarity is reversed.

**WHAT SHOULD I DO?**

The outlet to which the cord is connected is wired incorrectly. This can create a shock or fire hazard. Contact your marina operator or a qualified marine electrician for troubleshooting.

**Customer Service**

For customer or technical service, contact:

**Phone:** 707-226-9600 or 800-767-8541 (toll-free)

**Fax:** 707-226-9670

**Email:** technical@marinco.com

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**Power LED is ON [GREEN Light]**

**WHAT DOES IT MEAN?**

Cord is powered. The device is functioning properly and your vessel is not in danger.

**WHAT SHOULD I DO?**

Nothing.

If the Power light is OFF, the cord may not be powered. CAUTION: For your safety, always assume the cord is powered, even when the "Power" light is off. First, check to see if there is power inside your boat. If there is no power inside your boat, then make sure your cord is properly connected to a compatible power source (i.e. an outlet that has power).

**High Activity LED is ON [RED Light]**

**WHAT DOES IT MEAN?**

WARNING! Your vessel is experiencing dangerously high corrosion activity.

**WHAT SHOULD I DO?**

Your vessel may be in immediate danger of rapid corrosion. A likely cause of the corrosion current corrosion is stray current from a neighboring vessel. Disconnecting your shore power cord will lessen the risk of immediate danger. Contact your marina operator or a qualified marine electrician for troubleshooting.

**Customer Service**

For customer or technical service, contact:

**Phone:** 707-226-9600 or 800-767-8541 (toll-free)

**Fax:** 707-226-9670

**Email:** technical@marinco.com

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**Med Activity LED is ON [YELLOW light]**

**WHAT DOES IT MEAN?**

CAUTION! Your vessel is experiencing higher than normal corrosion activity.

**WHAT SHOULD I DO?**

Corrosion activity is not uncommon; however accelerated corrosion activity will deplete...