

Fitting Instructions

Galvanic Isolator Gi120/S/G



The Gi120/S/G Galvanic Isolator is intended to prevent galvanic and stray currents from finding a circulating path through the earth connection of a shore supply (Electric hookup).

It does this by breaking the earth connection from the perspective of Galvanic/Stray currents, while ensuring an uninterrupted path to earth for fault currents.

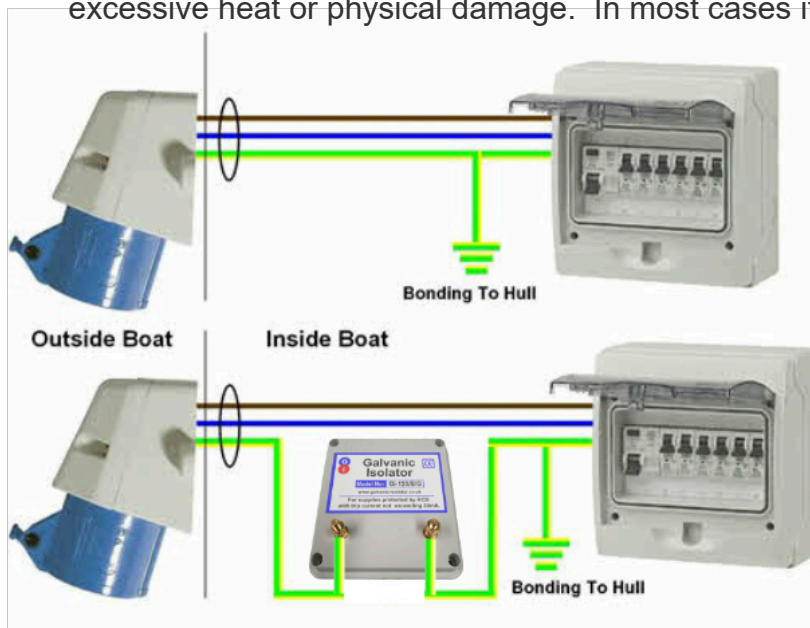
Thus the integrity of the safety electrical earth is maintained.

The Gi120/S/G is suitable for installations that are to be connected to shore supplies that are protected by an RCD not exceeding 30mA.

Please read through these instructions. If you are not confident that you can fit this item yourself, please consult a qualified electrician or exchange the unit for our plug in isolator of similar rating, which is "plug & play", requiring no installation.

Siting the unit:

The unit is designed for internal use, and may be placed anywhere where it will not be subject to excessive heat or physical damage. In most cases it will be located near to the point where the



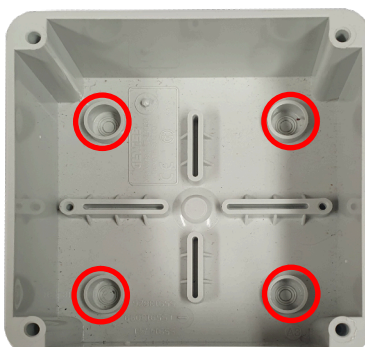
mains electricity supply enters the vessel, or close to the fuseboard.

Ensure that no ground connections on the vessel bypass the Galvanic isolator.

This is a requirement of the Recreational Craft Directive, and essential for the electrical safety of the boat.

Follow these instructions to install your Galvanic Isolator easily and safely.

Mounting your isolator



Choose a suitable location for your isolator. This will often be close to the boat's consumer unit (fuse board), or power inlet connector.

Remove the isolator's cover, and drill four holes for mounting screws at positions circled in red.

Mount the isolator in your chosen location, taking care not to over-tighten the screws. Alternatively, the isolator may be mounted using a suitable mastic adhesive.

- 1) Having mounted your isolator, fit the lid to the enclosure, and secure with the screws provided. disconnect the boat from the shore supply, and switch off that any invertors/generators, solar etc.
- 2) Disassemble the power input connection attached to the boat, and locate the EARTH terminal. This will normally have a green or green/yellow cable connected to it. It is the LONGEST pin in the connector.
- 3) Disconnect the earth cable from the connector, and route it inside the boat to the isolator, extending it if necessary. **(If there are several cables in the earth connector terminal, they Must ALL be connected to the same stud of the isolator. This is CRUCIAL to ensure that earth bonding is retained, and your isolator works as intended).** Label the cable(s) so that they can be identified later.
- 4) Connect a **new** cable from the earth terminal of the power input connection, and route it inside the boat to the isolator. This cable should have a cross sectional area of at least 2.5mm². Label the cable so it can be identified later.
- 5) Connect the single cable to either one of the terminals on the isolator. We recommend using a 5mm ring crimp connector (not supplied). Either terminal may be used.
- 6) Connect all of the other cable(s) to the remaining terminal of the isolator.
- 7) Ensure that the connections to the isolator are secure, taking care not to overtighten.
- 8) Reassemble the power input connection, ensuring that all connections are tight.
- 9) The power may now be reconnected.
- 10) Press the "Test" button on the boat's Rcd (Earth leakage circuit breaker) to check that it is operational.



Your Galvanic Isolator has been designed to give many years of service. In the event of a major electrical fault, lightning strike etc, we recommend that your isolator is checked to confirm correct operation. We offer a free checking facility. If you wish to take advantage of the service, please email or phone us for a returns number.