

# Galvanic Isolator

## Gi-120/A

# Instructions

## Model Gi-120/A

(purchased after 15th March 2019)



**Note:**

Suitable for shore supplies supplied by an RCD (Earth Leakage Circuit Breaker) with a trip current not exceeding 30mA, and an MCB (Circuit breaker) not exceeding 16A..

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

If in doubt, please consult a qualified electrician, or call us. We will be glad to help.

**IMPORTANT:**

To prevent water ingress, before installation, and periodically, check Gland Nuts on both ends for tightness (Blue in photo). They should be as tight as possible **USING HAND FORCE ONLY.**



Tel: 0757 807 3490

[www.galvanic-isolator.co.uk](http://www.galvanic-isolator.co.uk)



# Galvanic Isolator

## Gi-120/A

The galvanic isolator protects your boat from corrosion caused by galvanic and leakage currents that arise due to chemical interactions between your boat and nearby boats/structures and bank-side.



The Galvanic Isolator simply connects to EITHER end of your shore line. It can be connected either at the boat end or the shore end. Both options work equally well.



Locate your isolator where it will not be subjected to excessive heat, physical damage or water ingress, particularly the plug & socket. (Rain is acceptable - immersed or in running water is not).

When installed, to avoid water ingress, we strongly advise that the cable entries to the isolator the connectors should point downwards.



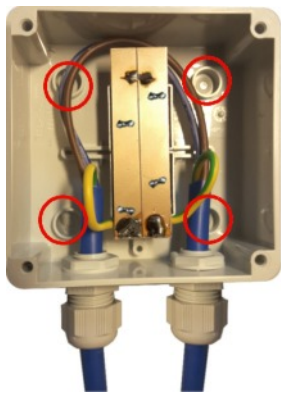
### Installation - Fixing the Isolator

Locate a suitable position for the isolator, ideally protected from excess heat, moisture etc.

The cable entries must point downward. Although the isolator is protected against water, it is still wise to keep it, and the connectors as dry as possible.

The Isolator may be mounted to practically any flat surface.

The most secure method of mounting is to use the screw positions inside the isolator enclosure. Alternatively, it can be fixed using either a mastic type adhesive, or a double sided adhesive tape available from DIY stores. If mounting using adhesive, please ensure that surfaces are sound, clean and dry. Support the isolator until adhesive has fully set, and use cable clips to prevent undue stress on the adhesive.



If using screws, remove the isolator lid, and drill the screw positions in each corner of the enclosure, marked red in the photo. Drill JUST large enough to accept the mounting screws you will use. Hold the internal cables clear of the drill to avoid damaging them. Alternatively, the holes can be drilled from the rear of the case, again, taking care not to damage the internal cables.

Mark the screw positions on the surface to which the isolator is to be mounted, and pilot drill or drill & tap holes as necessary.

Fix with chosen screws, taking care not to overtighten, as this could damage the enclosure.

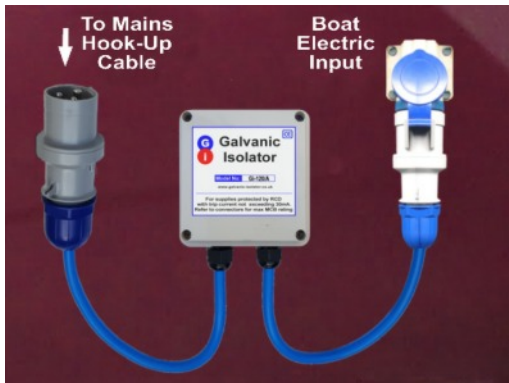
### Fixing Points Circled Red

To prevent water ingress, apply a small amount of sealant on the rear of the isolator at the screw positions, and fix the isolator to the surface.

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## Installation - Fixing the Isolator continued

As a further measure to prevent water ingress, when fixed, apply a little sealant to the heads of the fixing screws. Re fit the lid to the isolator.



## Installation - Connecting the Isolator

Switch off the electricity supply at the shore supply, and disconnect the shore line.

Connect the isolator to the chosen end of the shore line.

Connect the free end of the isolator to the boat or shore connector.

Switch on the electricity supply at the shore supply.

Check that the RCD test button on the boat operates normally

You are now protected.



### Note:

Isolators may be supplied with the connectors either way around. If you wish to change them this is permissible. Simply interchange the connectors, paying attention to polarity. Please ensure connecting screws and gland nuts are tight.

To open the connectors, please press clip (see photo), and twist connector body halves in opposite directions.

**If in doubt, please seek advice from a qualified person.**

### IMPORTANT:

To prevent water ingress, before installation, and periodically, check Gland Nuts on both cable ends for tightness (Blue in photo).



Gland Nuts should be as tight as possible **USING HAND FORCE ONLY.**