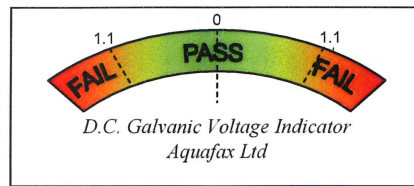


Usage:

Once installed correctly the galvanic isolator will block galvanic currents in the shore earth connection. Galvanic currents will be effectively blocked up to around voltages of around 1.1V. Above this level the galvanic isolator will begin to allow current to pass, as it must in order to maintain the safety earth connection.

The level of galvanic voltage present at an earth connection is related to the type of submerged metals present. For almost every combination of metals likely to be found at a mooring the 1.1V maximum is sufficient to block any corroding currents. In extreme circumstances such as when rare metals are in use or a faulty electrical system is present the voltage found at the earth connection may be greater than 1.1V. Unusually high voltages like this will allow current to flow through the galvanic isolator potentially corroding submerged metals on the boat.

In this situation it may be preferable to disconnect the shore hook up rather than risk hull corrosion. In order to help the boat owner make this decision the Isolator is fitted with a volt meter that indicates the level of galvanic voltage present.



For simplicity the meter is divided into PASS - the voltage is within the capability of the isolator- and FAIL - the voltage exceeds the maximum the isolator can block. As long as the indicator stays within the green zone on the meter the galvanic isolator is effectively blocking D.C. galvanic current.

Boat owners should be aware that other shore earth connections can exist that can also cause galvanic currents. E.g. telephone hook-up cables and cable television connections.

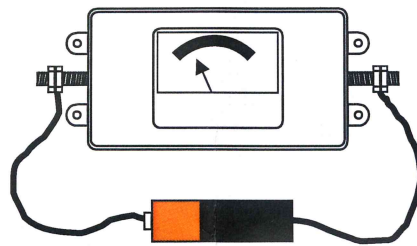
Testing:

As with any other safety dependant device the galvanic isolator should be periodically tested. This can be easily accomplished using any 1.5V alkaline battery and two short lengths of wire.

Note: The battery must be new for the test to be accurate.

Simply connect the two ends of the battery to the two ends of the galvanic isolator.

The needle on the meter should move into the FAIL section. Now turn the battery around. The needle should move the other way into the fail section.



If the needle stays in the centre position and does not move then the unit should be removed from the safety earth as soon as possible and returned to Aquafax Ltd for testing.

If the needle moves completely off the scale then the unit should be removed from the safety earth as soon as possible and returned to Aquafax Ltd for testing.

AQUAFAX LTD

14 Dencora Way Sundon Business Park Luton Beds LU3 3HP Tel: 01582 568700 / Fax 01582 568720

Aquafax

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