

Charging the Scanmar sensors with NiCd batteries

Connect the red clamp to the + (positive) lug.

Connect the black clamp to the - (negative) lug.

Charging occurs when one or both charger indicators light. If the indicators are not lit, then the battery does not charge. Check for electrical shorting, broken leads, poor contact between charger clamps and sensor lugs, and finally check that the charger clamps are connected to the correct lug. Check for correct mains voltage.

Quick Charge is indicated by both green and red indicator.

Quick charging requires a **battery temperature of +5 to +40°C**.

When the sensor reaches approximately 85% of full charge, normally after one hour, the red indicator turns off. Trawl eye battery requires 6.5 hours of charging for reaching 85% of full charge.

Charging continues at the normal rate until the sensor is disconnected from the charger.

To charge the battery to full capacity, continue charging with only green indicator for 2 to 3 hours after the red indicator turns off.

Use only Scanmar chargers to charge sensor batteries. Other charges may cause damage or even cause the battery to explode.

Operational time (hours of operational use from fully charged to discharged state) and battery life are heavily dependant upon correct and regular charging. A few simple precautions greatly improve operational and battery life.

Optimal charging temperature is +10 to +25°C.

A battery will be damaged when charged at low ambient temperatures and must never be charged at temperatures below 0 °C. Similarly, batteries should not be charged at ambient temperatures above +35°C.

The sensor will give best service if its capacity is used before charging. However, the battery should not be deeply discharged frequently, i.e. using the sensor until it ceases to function.

A sensor should be charged when the total operating time since the last charge equals the operational life specified for the sensor.

The electronics within the sensor slowly drain the battery even when the sensor is not in use. After approximately one month the battery will be discharged. The discharge period varies from sensor to sensor. Sensors should not be left attached to the gear as they then discharge more rapidly.

Prolonged storage with the sensor battery discharged will slowly destroy the battery. Scanmar recommends recharging sensors every third month when not in use.

Remove the sensor from chains, shackles, wet ropes, wet gear etc. when charging the sensor. These appendages may cause leakage currents, poor charging and corrosion of the sensor lugs. Always connect the charging clamps directly to the sensor lugs.

