



LTL-X Battery – Use and Replacement

Battery

The LTL-X retrometer is powered by a 12V/1.3Ah NiMH battery. Under normal use, this battery requires no maintenance. However it is recommended to keep the battery fully charged. A fully charged battery is more capable of withstanding degeneration.

A battery charger power supply is provided as a standard accessory for charging the battery from mains. The output cable of the charger is equipped with a connector matching the connector in the instrument. Connect the charger to an outlet and the instrument. If the instrument was turned off the display will now show a moving text that explains the charging state (Charging/Trickle charging/Charging done/Is Charged and Charge Error). The battery icon in the upper right corner will also indicate the charging state.

No harm will result from leaving the charger connected after the charging process. However, the instrument must be disconnected from the charger when disconnecting the battery from the wall outlet. In addition, the battery can be charged using any DC supply from 12-18 V such as a car battery by using an inverter.

When storing the instrument for a long period of time fully charge the battery.

It is possible to install a larger battery pack to increase the operating time for the instrument. This is also recommended when using a GPS.

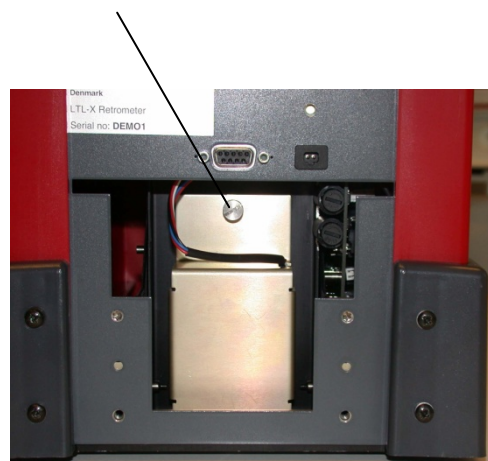
Replacing the battery

A worn out battery will not hold a charge very long. When the battery is worn out it must be replaced. The user can do this.

The battery is located in a compartment at the rear of the tower. To replace the battery, remove the screws from the back cover, and remove the cover



Loosen the big screw at the battery cover. You can now remove the cover.



Lift out the battery of the compartment







Press the snap-on clip on the connector and carefully withdraw it from the printed circuit board



The battery can now be removed and replaced. Refit in reverse order. Please check your local regulations for disposal of the battery.

Battery status

The capacity of the battery can be seen from the icon in the upper icon row.

-  Indicates that the battery is fully charged.
-  Indicates that the capacity of the battery is high to fair
-  The capacity is low. You should recharge the battery.
-  The battery is almost empty.

The battery voltage is shown as it was **at the last measurement** in idle (when the instrument is on but not taking a reading) and in loaded mode (when xenon lamp is charging). Select the battery icon (with UP, LEFT and OK). The display will then show the voltages.