

Operating Instructions for the ADCON ACS-110 Charger



The Adcon ACS-110 Charger is the ideal device to charge all Adcon NiCd and NiMH batteries with capacities of up to 7000 mAh. The device features a connector to plug directly into the internal batteries of Adcon RTUs (except A730MD: needs adaptor). A 5-pin adaptor cable with an integrated circuit that protects against excessive voltage but allows charging of batteries without opening the RTU, is also included. Please observe the following operating instructions:

Charging battery packs:

1. Connect the charger to an A/C outlet. The red "Power" LED will light up.
2. Connect your battery pack directly to the Charger or via the 5-pin adaptor with your RTU. The red "Charge" LED will come on, and the green "Ready" LED will start flashing, while the charger determines type and capacity of the battery attached.
3. After about 60 seconds the test phase is over and the green LED „Ready“ turns off. Only the two red LEDs "Power" and "Charge" are on, indicating the current charging process.
4. Depending on the capacity of your battery pack the charging process will be finished after some 3 to 7 hours. As soon as the charger detects the battery to be fully charged, the red "Charge" LED will turn off and the green "Ready" LED lights up. After two minutes the charger switches to trickle charge mode and the green "Ready" LED changes to flashing and will keep doing so until you disconnect the battery.
5. Your battery pack is now ready to go!

Note: Should the charging cycle come to an end while you're not around, don't worry: your battery will not be overcharged. When detecting the battery to be fully charged your charger will automatically switch to "trickle charge mode" and maintain your battery's fully charged state without putting any stress on it nor overheating the pack or itself.

Reconditioning battery packs

It is recommended to recondition batteries at least once a year. A reconditioning cycle will fully discharge and charge your battery. Repeat this cycle if your batteries are 2-3 years or older.

1. Connect the charger to an A/C outlet. The red "Power" LED will light up.
2. Connect your battery pack directly to the Charger or via the 5-pin adaptor with your RTU and push the yellow button. Hold it down until the yellow "Discharge" LED comes on and the green "Ready" LED starts flashing.

3. After about 60 seconds the green "Ready" LED will stop flashing, leaving only the red "Power" and the yellow "Discharge" LEDs on.
4. Depending on the charge state and the capacity of your battery pack it might take quite a few hours until the status of your charger will automatically change from discharge to charge, with the yellow LED turning off and the red "Charge" LED coming on.
5. After several hours, once the battery is fully charged up again, the red "Charge" LED will turn off and the green "Ready" LED will come on.
6. Your battery pack is now ready to go!

Repeat once or twice with batteries older than 2-3 years to reduce memory effect and increase the lifetime and capacity of your battery

NOTES:

- Please also take a look into Chapter 2 of your A733 manual: Changing the Battery

- If you want to keep a charged battery pack on stock make sure to recondition it at least once every 3 months!

- If any LED status other than described above occurs, please contact your dealer immediately, or send an email to support@adcon.at immediately!

If the green "Ready" LED flashes immediately after connecting the battery pack and the red LED "Charge" lights up sporadically, the polarity (+/-) of the battery is not set correctly.

If both LEDs are still flashing after changing the polarity and the green LED "Ready" does not light permanently, the battery pack is defective and cannot be recharged at all, but needs to be replaced.

IMPORTANT: Please use this battery charger with Adcon battery packs only!

Safety instructions:

- Do not attempt to open the charger.
- Keep the charger in a dry place (indoors).
- Protect the charger against high humidity and water to avoid risk of fire and/or electric shock.
- Do not plug in the charger if there are signs of damage to the housing, the mains connectors or the battery connectors.
- Keep out of reach of children.
- If the safety instructions are not followed, this may lead to damage to the charger or even to injury to the user.

IMPORTANT NOTE

When charging your RTU via the 5-pin power port please make sure that you use exclusively the adapter cable supplied by Adcon with your ACS-110 charger! This cable protects the RTUs processor from excessive voltage that might lead to the destruction of your RTU!