

**AMMONITE**<sup>®</sup>  
S Y S T E M

# ACCU TYPE

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M A N U A L

## THANK YOU FOR CHOOSING AMMONITE SYSTEM

We are hopeful that your experience with Ammonite System products will be smooth and flawless. To ensure that please read this manual and follow the rules within.

For any questions please check our website [www.ammonitesystem.com](http://www.ammonitesystem.com), contact us by e-mail or our fanpage on Facebook.



The symbol placed on the product or its package indicates that this product cannot be treated as household waste. It should be handed over to the applicable collection point for the used up electrical and electronic equipment. By providing proper storage you may prevent dangerous consequences to the environment and human health.

Recycling helps to preserve natural resources. For more information about recycling of this product, please contact your local authorities or authorities responsible for environment protection, your household waste disposal service or the shop where the product was purchased.

At the end of the use, the battery should be placed in a special container or brought to a collection point for the recycling of electrical and electronic equipment.

In order to do this please read current environmental protection regulations.



### **NOTE**

Despite the regulations in force concerning air shipping of hazardous goods including Li-Ion batteries, the shipping company may refuse to ship a Li-Ion battery onboard a plane. Ammonite System will not be held responsible for such occurrences.

## INTENDED USE

ACCU TYPE 9, ACCU TYPE 10, ACCU TYPE 14 and ACCU TYPE 24, later called ACCU batteries, are intended to be used to supply power to umbilical dive lights operating at a maximum of 12 V. ACCU batteries feature one connection terminal at the top part of the casing. The terminal is intended for power supply of any Ammonite System umbilical dive light and for the battery charging.

## GETTING READY FOR OPERATION

It is recommended to use a fully charged battery to maximise its operation time.

## RECOMMENDATIONS FOR USE

In the case of a longer period of non-use, the battery capacity must be checked by connecting the charger to the charging port.

If need be, the battery should be charged up.

## PRECAUTIONS LI-ION BATTERY PACKS

The battery should not be left unattended while being charged. The battery pack must be fully charged before its first use. Deep discharge of the pack i.e. one below 8.0 V (15% on the battery display) should be avoided.

The batteries discharge spontaneously even when they are not used. This may result in deep discharge and, consequently, loss of capacity or deterioration of the battery pack.

Before use in water, condition of the electric cables, particularly the E/O cable, and the charging port plug (if used) should be checked.

If any damage is detected, the battery pack should not be used. The battery should be checked for leak tightness.

The company Ammonite System will not be held responsible for any damage resulting from the misuse of ACCU battery.

## CHARGING THE LI-ION BATTERY

To charge the battery, you must connect the charger to a 100–240 V ~ power source.

Proper performance of the charger is indicated on the blue backlit display.

The output plug of the charger must be connected to the battery charging terminal.

The charge start is indicated by the display changing its colour from blue to red and displaying information on the battery pack charge status.



The indications on the charger display are only approximate. They serve to determine the estimated battery level.

## USE OF THE LI-ION BATTERY:

The battery must be charged only with the AMMO LITHIUM CHARGER supplied by Ammonite System.

The battery must not be discharged below the voltage level of 8.0 V (15% on the battery charger display).



## PERFORMING THE FOLLOWING IS PROHIBITED:

- Open/cut the protective wrap of the battery pack.
- Interfere with the battery construction.
- Short-circuit the battery contact pins.
- Use ACCU battery with other batteries than genuine Ammonite System battery packs.

- Throw the battery or pierce the cells' casing
- Put the battery into fire.
- Immerse the battery pack into the water.

## STORAGE CONDITIONS OF LI-ION BATTERIES

The battery should be stored in a dry, ventilated room in ambient temperatures from +10 °C to +40 °C.

Temperatures higher than +60 °C may cause damage to the internal parts of the battery.

Charging the battery must always take place in a positive temperature: from 10 °C to +40 °C.

If the battery was stored in negative temperature, it is necessary to let it adjust by leaving it in a temperature of at least +10 °C for 4-5 hours.

While diving in winter, you must not store the battery in a negative temperature (e.g. in a car boot or outdoors).

Charging a frozen battery may result in damage to its internal parts.

Discharge of the battery may take place in temperatures ranging from +10 °C to +40 °C.

The battery may be stored after prior charge up to 70%-100% (storing a discharged battery leads to its deterioration).

The battery must be stored away from sources of fire and damp, as well as food.

When stored, the battery must be charged at least once every six months or more often if the voltage on its connection terminal amounts to less than 8.5 V (20% on the charger display).

You must check the voltage/capacity on the battery connection terminal once a month using the charger included in the kit or another appropriate measuring instrument.



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