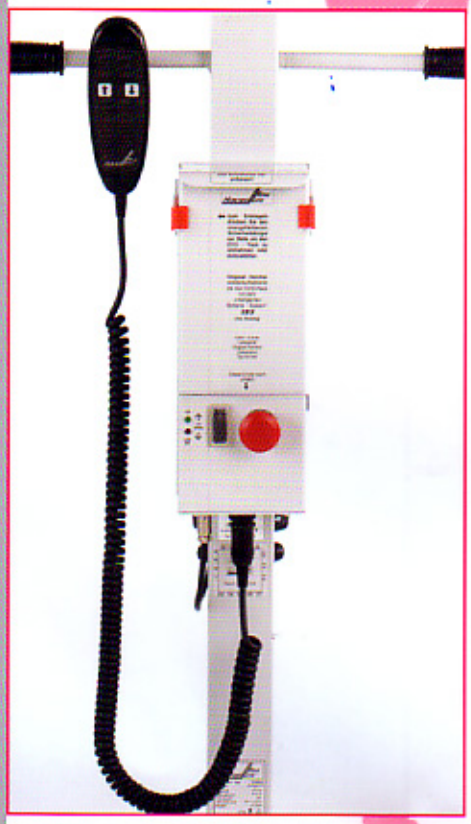
IBS – Intelligent Battery System



What is IBS?

IBS is an intelligent battery system for rechargeable batteries. It consists of an electronic regulation system integrated in the battery along with an upstream electronic control system. It protects the battery from undesired discharge and improper handling.

Why IBS?

Often, it is difficult to recognize which type of battery one is dealing with – NiCd batteries, ZnPb batteries, and NiMh or lithium ion batteries – all these types have very special characteristics, both in energy output and in charging. The so-called "memory effect" occurs only with NiCd batteries. Nevertheless, many users believe that batteries have to be discharged often in order to prevent loss of capacity. For the batteries used by us this leads to total discharge, which substantially shortens the life of the battery!

Battery Management with IBS:

- Detects independently when energy output is required and switches to stand-by mode;
- Switches to sleep mode after three minutes of inactivity;
- a) Uses an intermittent tone to remind the user to recharge;
- b) If this charging signal is ignored, the system sounds a constant tone to remind the user to recharge;
- c) Switches the battery off automatically before it can be damaged by total discharge

How It Works:

The battery with IBS has three functional poles – in addition to the positive pole and negative pole, there is a third pole, which connects the electronic regulation system and electronic control system to each other (imagine this pole like a water faucet – if water is needed you turn it on, if no water is needed, you turn it off). When the batteries are shipped there is no voltage on the poles – so there cannot be a short circuit.

If you put a conventional battery in the corner and let it lie there unused for a long time, the battery will slowly discharge totally through self-discharge and thus destroy itself. IBS tells the user when a recharge is needed and thus protects itself. The advantage for our lifts: if the red recharge lamp on the lifts is ignored, the battery alerts the user after a further drop in voltage. This signal is first an intermittent tone, then a constant tone, and finally ends by shutting off the battery. After three minutes of inactivity the battery shuts off automatically, which means it is no longer necessary to use the on/off switch.

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