

iBOS® – Intelligent Battery Organizing System

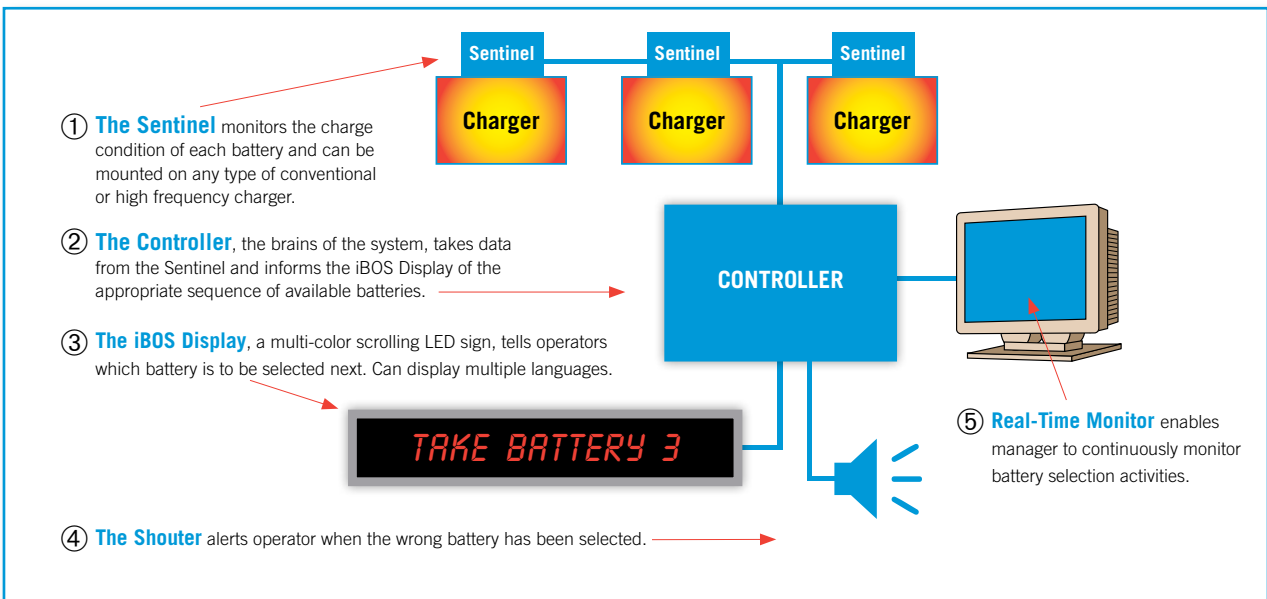
Battery room management that extends battery life and effectiveness



Site tests have shown that if battery selection is left to an operator, 30% of the batteries will be underutilized and 20% will be overused. The result: uneven battery usage, premature battery failure and lost productivity.

The iBOS® (Intelligent Battery Organizing System) with Real-Time Monitor enables the most cost-effective utilization of your pool of batteries. It ensures proper battery rotation, which is critical to long battery life and maximum run time. iBOS monitors all batteries in a pool and eliminates operator judgment in battery selection by determining which battery has had the longest cooling time since charging. Once charged, each battery is placed in queue. The simple-to-use iBOS “read and react” Display then tells the operator which battery to take. An audible alarm called the Shouter alerts the operator when the wrong battery is taken. And the Real-Time Monitor provides all the information needed to efficiently manage the battery pool.

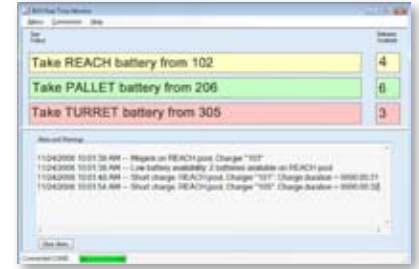
Here's how iBOS works



iBOS® with Real-Time Monitor gives battery managers all the information they need to manage battery pools right from their computer.

With the iBOS Real-Time Monitor, a battery room manager can use an on-site computer to continuously monitor battery selection activities. It provides information in an easy-to-understand manner, signaling the manager when one of our five alert conditions is triggered:

1. **Battery availability low** – when no charged batteries (or any number a manager chooses) are available.
2. **Mispick** – when an operator chooses the wrong battery or if the battery picked is still charging.
3. **Short charge duration** – when a battery takes less than three hours (or any duration the manager chooses) to charge. This may indicate a low capacity battery or that an operator is returning a battery for recharging too soon.
4. **Charger no start** – when a charger does not turn on when a battery is connected — sometimes due to an over-discharged battery.
5. **Cool down time** – when a battery is picked before a pre-selected length of cool-down time, potentially reducing the life of the battery



iBOS Features

- Easy-to-use “read and react” system.
- Large scrolling display tells forklift operators the “correct” battery to pick next. Displays are available in multiple languages.
- Shouter sounds an alarm when operator takes a battery that is not fully charged, reducing mispicks.
- Real-Time Monitor provides all the information needed to efficiently manage the battery pool.
- Works with virtually any charger.

iBOS Benefits

- Promotes longer battery run time and life through uniform usage.
- Improves operator productivity.
- Identifies faulty equipment.
- Helps managers decide if there are too many or too few batteries in the pool.

Maximize battery room ROI with the iBOSWorld™ Web Service

As an optional service, iBOS can interface with the new iBOSWorld Web Service (www.iBOSWORLD.com). This Web-based tool enables management to optimize the organization’s assets by analyzing battery performance and facilitating more effective decision making through reports that are available anywhere in the world on the Internet.



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