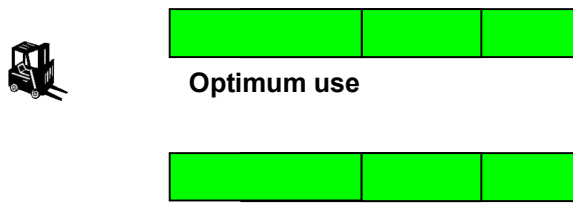


# Battery Allocation-System (BA-S)



Without BA-S, batteries are unevenly used



With BA-S, batteries are evenly used.

The **BA-System** is a control and management system which ensures maximum utilisation and life from your battery fleet.

Fully automatic sensing of which battery has reached a fully charged condition first, with clear simple indication of the correct battery to be used next.

In the event that an operator takes a battery out of sequence a 100db verbal alarm is sounded advising the operator that the wrong battery has been removed and to place it back on charge.

The BA-System records date and time for when batteries are put on charge, when a fully charged condition has been reached and when the battery has been taken off charge. In the event that a battery is taken out of sequence the date and time of the event is also recorded.

The optional facility of remote real time monitoring and downloading of stored data is available locally via a PC or remotely by a GPRS link from any where in the world.

## Application

Multiple truck sites where trucks do not have dedicated batteries and managing correct battery rotation is an issue.

Sites where detailed information of battery use is required as a management tool.

## Principles of operation.

Having dedicated batteries to trucks or shift changing of batteries can result in inefficient utilisation of the battery fleet and wasted operator time in changing batteries unnecessarily.

Pooling batteries and changing on demand can dramatically reduce the battery fleet and space required for charging and reduces time taken in changing batteries.

Managing this type of battery changing regime can prove difficult and if not correctly controlled can result in unequal use of the battery fleet and premature battery failure.

BA-S ensures that batteries are used equally and efficiently by recognising which battery has reached a full charge condition and via a scrolling alpha numeric display, advises the driver which battery should be taken off charge and used first.

This controlled rotation ensures the battery fleet is fully utilised and maximises battery life.

## BA-S features.

- Fully automatic allocation and identification of the next battery to be used.
- Large high visibility scrolling display gives clear plain language advice of which battery is to be taken.
- Customer recorded, verbal warning for battery taken off charge out of sequence.
- History of battery use and operator taking batteries out of sequence.
- Optional remote monitoring and download of stored data.
- Optional DC connector locks to stop batteries being removed out of sequence.

## Benefits

### Reduced equipment and installation cost;

Less batteries and chargers for truck fleet.

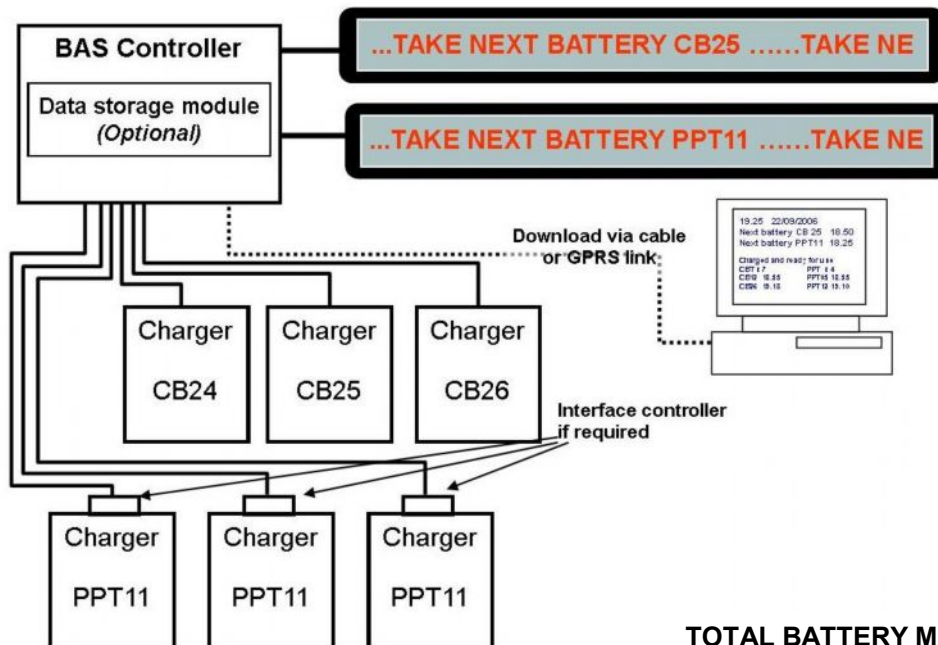
**Balanced battery life:** Equal use of all batteries in fleet.

**Space saving:** Reduced space for charging bay due to reduced batteries and chargers to serve truck fleet.

**Management information:** Truck and battery usage recorded and viewed locally and remotely.

## Technical features

- Unlimited number of batteries monitored with easy expansion for growing fleets.
- Suitable for use on makes of battery chargers, some models make require additional use of a BAS interface controller.
- Scrolling Alpha Numeric display advises next available battery to be taken.
- 100db recordable alarm message for batteries disconnected out of sequence. *(Optional – customer can record the message).*
- Recorded data with real time and date stamps.
  - Battery identity
  - Charger identity
  - Battery connected
  - Charging commenced
  - Charging complete
  - Battery disconnection
  - Battery disconnected out of sequence with state of charge at disconnection time.
- Optional computer link via network or remotely via GPRS modem



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