

LOWS Update Briefing 4 – ZPW Internal battery and Safety tests

Internal ZPW Battery

The ZPW has an internal battery which is critical to the safe use of the equipment in providing warnings of approaching trains.

It is essential that the internal battery is charged for a minimum of 6 hours up to a maximum of 12 hours ONCE PER WEEK.

This must be done as follows:

Attach the adaptor lead to charge the internal batteries in the ZPW. This is connected between the ZPW unit and the external battery, as shown.



- Connect the ZPW via the charging adaptor to the big external battery (ZA24-5).
- Leave the ZPW switched off
- Leave internal battery on charge for min 6 - max 12 hours
- Recharge the external battery (which becomes drained by charging the internal batteries)

The charging adaptor must be removed before use.

Depot test of LOWS – to prove internal battery

BEFORE going to site, while still at the depot, fully connect and set up the LOWS equipment with at least 1 lookout handset in use.

Go through the FULL set up process, including test warning(s) to achieve “Status OK” on the ZPW display screen.

To positively prove that the internal battery is fully charged NOW put a train warning on.

The ZPW will alarm as expected if the internal battery is OK and you can proceed to the work site. If any other outcome arises DO NOT USE THE EQUIPMENT and seek guidance.

Site test of LOWS – to prove internal battery

Go through the FULL set up process, including test warning(s) to achieve “Status OK” on the ZPW display screen.

To positively prove that the internal battery is fully charged NOW put a train warning on.

The ZPW will alarm as expected if the internal battery is OK and you can start using the LOWS safe system arrangement on site. If any other outcome arises DO NOT USE THE EQUIPMENT and seek guidance.