



WP Series Battery Replacement

The rechargeable battery of the WP Series is built-in, so the instrument must be disassembled to replace it. This is normally done in the factory but can be done by qualified technicians according to the following procedure.

Please read the entire procedure first, before starting to replace the WP battery.

1. Remove the 6 screws from the rear of the WP, which hold the meter together. Be sure to keep the nylon washers, as these form part of the waterproof seal.
2. Carefully open the front cover of the WP. Gently pull the keypad ribbon cable out of its socket.
3. Locate the black and red battery wires coming from the underside of the PCB and note the polarity of the battery header connector. Remove the battery header connector.
4. Remove the 4 screws that hold the PCB in place. Lift out the PCB.
5. Cut the silicon adhesive that holds one side of the battery in place. Take care not to cut into the battery itself, as a short circuit could cause massive amounts of heat.
6. Remove the 2 screws that hold the plastic battery holder in place. Make a note of which way the battery is mounted, in particular which side the wires come out. The battery holder and battery can now be removed.
7. Fit a new battery, making sure that it is in the same position as was noted in step 6 above.
8. Replace the plastic battery holder and re-fit the 2 screws. Do not over-tighten.
9. Use silicon adhesive to fix the other side of the battery in place. LEAVE THE BOX OPEN FOR 24 HOURS, UNTIL THE SILICON ADHESIVE IS FULLY CURED. Failure to do this may result in corrosion of some delicate components, due to the acetic acid vapours.
10. Replace the PCB and re-fit the 4 screws.
11. Fit the battery header connector onto the pins on the PCB, with the same polarity as noted in step 3 above.
12. Carefully re-fit the keypad ribbon cable into its socket, making sure that all of the pins are aligned correctly.
13. Fit a new o-ring into the WP enclosure, as the old one may be compressed to the point where it will not seal correctly again.
14. Close the WP enclosure lid and re-fit the 6 screws, making sure the nylon washers are in place. Ensure that the ribbon cable that is fitted around the outside of the PCB is not pinched by the enclosure. The screws should be moderately hand-tightened. Do not over-tighten, as this could cause the inserts to become cross threaded which will mean the unit is no longer waterproof.