

Note: Before switching on ensure the dial reads zero.

Switch the instrument **on** using the **power** switch. If more than one decimal point appears in the red digital display, it is an indication that the battery pack needs charging.

If there is no reading please contact our Nottingham Sales Office for technical advice.

Battery Charging

The battery pack may be charged using **only** the supplied charger. It is preset to charge at the 16 hour rate but if charging is continued beyond the 16 hours no serious harm will be done to the batteries, but frequent or gross overcharging can reduce battery life.

Lift the battery pack out of the Neurothesiometer case to the limit of its connecting wire. Unplug the connecting wire.

If a second, fully charged pack is available, plug the connecting wire into the smaller diameter coaxial socket of the spare battery pack and insert the pack into the case.

Recharging the battery pack in-situ in the instrument (referred to in some leaflets) has discontinued for safety reasons.

Making a Measurement

If the patient has normal sensitivity, it is probable that the **expand** range will be preferable. This gives a full scale reading of 0 – 25 volts (0 – 62.5 microns). The **normal** range extends from 0 – 50 volts (0 – 250 microns).

Switch the **review / store** switch to **store**; this operation automatically returns the memory to position 1 (green display). Select whether or not you wish to read-out in **volts** or **microns** (micrometers).

Note: The readings in volts will correlate closely with those of the biothesiometers. However, the readings in microns will not correlate with the biothesiometers calibration curves, but are accurate free air movement readings at the tip of the vibration head. Because the circuitry of the Neurothesiometer contains a power feedback circuit, the free air movement is little different from the movement in contact with the skin.

With the **dial knob** set to zero apply the vibrator to the patient at the chosen site of the body and allow the vibrator head to the rest in contact with the site under its own weight. Turn up the output until the patient just senses the onset of vibration.

Press **advance memory** which records this value in the memory, and moves on to the second memory position. Return the output to zero before making the next measurement. Make as many readings as wishes, at different test sites, up to the maximum memory number of 10.

Reviewing Measurements

To review the measurements taken, switch the **review / store** switch to **review**; this automatically resets the memory to position 1. The set of readings taken will now be individually displayed, corresponding to each successive memory number, as the **advance memory** button is pressed.

Switch **off** the instrument.