

period. A small percentage of the so-called LEAKPROOF cells have also been found to be unsatisfactory after long periods.

For this reason it is also important to ensure when replacing cells that they are all 'brand new'.

The above caution is not necessary with Manganese Alkaline or rechargeable types.

## 2.7 MAINS POWER UNITS.

### a) TYPE PU2 (240V)

The PU2 incorporates a rechargeable Nickel-Cadmium battery and electronics charge control circuitry. The circuitry is arranged to enable the PU2 to provide power directly from the mains if the mains input is connected or alternatively from the rechargeable battery if mains is not connected.

When the mains is connected the charging circuitry provides the correct charge current (40-45mA) for the battery and

automatically reduces this to a trickle rate (3 - 4mA) when the battery is fully charged. This means that it is impossible to overcharge the battery.

The D. C. performance is as follows:

With mains connected,

D.C. output 15.5 - 17V (0 - 100mA load).

With mains disconnected (and battery fully charged)

D.C. output 14.5 - 15.5V (0 - 100mA load)

Mains input range is 200 - 250V a.c. 40 - 60 hz.

The capacity of the rechargeable battery is approximately 450mA Hrs. This allows about 40 - 50 hrs. continuous use of the 2003. To fully recharge the battery requires 14 - 16 hrs with mains connected.

### b) TYPE PU2 (110V)