

## RM100 and RM2000 SURVEY METERS

- \* 0-100 or 0-2000 uSv/hr
- \* Normal mode
- \* Peak dose rate mode
- \* Meter back light
- \* Audible and visual display
- \* Protection IP65
- \* Up to 250 hours battery life
- \* Weight 640g including batteries
- \* Size approx 20 x 11.5 x 8.5cm including handle



The RM100 and the RM2000 Survey Meter are compact hand held radiation monitors designed to measure x-ray and gamma radiation above 20 keV. The instrument provides an indication of ambient D.E. rate in uSv/hr. The meter may be supplied in two meter scale configurations depending on the model purchased.

The RM models also have two further measurement modes: "Peak Rate" and 'Total Dose'. "Peak Rate" mode will display the highest dose rate on the meter scale since the function was selected. There is also a "Total Dose" function as well.

The unit has an audio output and will emit a 'click' sound each time a radiation event is detected, which may be silenced if desired. The scale may also be illuminated if required during operation.

The RM100/RM2000 also has inbuilt fault detection and status monitoring, and will warn if a fault or over-range is present or the batteries require replacement.

The unit is able to measure down to below 20 keV

### **Analogue Display**

This provides a clear indication of the current measured reading. The current battery reserve is also indicated on the green scale section during power on. The scale can be illuminated if required by means of the 'Mute/Lamp' button.

### **Mute/Lamp Button**

By default, the unit will power up with the meter backlight off and with the speaker 'click' enabled. Pressing the button will run through each of four possible combinations of sounder on/off and backlight on/off. When the sound is turned off, the LED at the switch will illuminate.

### **Peak Dose Button**

An LED will illuminate to indicate 'Peak Dose' mode. During operation, the meter will retain the highest value detected, and cause the needle to 'hold' at that value. The speaker 'click' will still be heard, but the meter will only move in an upward direction (never downwards) once a higher dose rate level has been recorded. This function enables the meter to be safely left in a high radiation field without the operator being present. The operator can then return and safely read off the maximum value seen during the test.

### **Accrued Dose Button**

This will put the meter into a 'totalised dose' mode. This will add together, second by second, the dose present at the RM100/2000 since selection .

### **Sounder**

The sounder speaker is provided to give audible 'click' indication that a radiation event (count) has occurred. If an alarm condition occurs (radiation overload, low battery, etc) the unit will sound a constant rasping 2 KHz tone. The sounder can be turned off in normal operation by means of the Mute/Lamp button. Alarms will always be active and cannot be disabled.

### **Backlight**

A backlight is provided to allow the meter to be read in low light conditions. The backlight can be turned on and off by means of the Mute/Lamp button. The default is backlight off.

A full independent Type test conducted by the HPA on the RM100/RM2000 is available on request.