

MB3 PERSONAL RADIATION MONITOR

FEATURES

- Audible and visual alarms
- Alarm warning tone style changes at $7.5\mu\text{Sv/hr}$ and above
- Detects Gamma and X Rays
- Fits easily in a pocket or can be fixed to a belt using the integrated clip
- Long battery life
- Rugged construction
- Battery can be replaced without needing tools
- Max range $1000\mu\text{Sv/hr}$

SPECIFICATION

Radiation detected: X-Ray, Gamma-ray, ionising radiation.

Alarm Signal: High pitched audible warning pulses with a repetition rate proportional to the dose rate, the tone changes to a chirping sound at and above $7.5\mu\text{Sv/hr}$. A red LED indicator flashes at the same rate as the audible tones.

Test button: To check the audible and visual warning circuitry. Also used to check battery health.

Battery: Single CR2 3 Volt cell, life typically 6 to 12 months depending on usage.

Size: (excluding belt clip) 85 x 50 x 25mm. **Weight:** 102 gm (including battery) **Operating temperature :** -10° to 65°C

OPERATION.

The MB3 provides audible and visual warning of the presence of Ionising radiation. The audible alarm is a high pitched beep tone and the repetition rate of the tone will increase in proportion to the dose rate.

At a dose rate of $7.5\mu\text{Sv/hr}$ and above the beep tone changes to a shrill chirp and again the repetition rate of the chirp will increase in frequency if the dose rate increases.

If the dose rate reaches or exceeds $1000\mu\text{Sv/hr}$ which is the max range of the MB3, the audible warning will be a long alternating tone indicating over range.

There is a bright red LED warning lamp on the top of the MB3 which flashes at the same rate as the audible warning sounds.

There are no user controls other than the test button recessed on the back of the instrument.

Low battery is indicated by the red LED being permanently lit.

