

# Vertec | Bleeper III Bleeper Sv

## Personal Radiation Monitors



- For NDT, nuclear & X-ray applications
- Audible indication of radiation dose rate
- Displays integrated dose

## Beeper III monitor

The Beeper III is a simple, robust pocket radiation monitor. With its audible warning of radiation dose rate, it is a reliable means of safeguarding personnel against the hazards of X and Gamma radiation.

The beep sounds approximately every 15 minutes with background radiation levels, and the beep rate increases with dose rate to become continuous in high radiation fields. In addition, a series of quiet clicks from the loudspeaker indicates that the instrument is functioning correctly. An increase in the length of the beep from 0.1 of a second to 1 second indicates that the batteries need changing.

### Features

- slim and compact – fits easily into a breast pocket
- light and robust splash-proof case with reliable clip
- loud beep – audible in any environment
- good energy and polar response – readings will match those from TLDs and film badges
- long battery life (1 year) with clear battery low indicator

### Technical Data

#### Bleep rates:

**Background radiation:** approximately 1 beep every 15 minutes  
**10  $\mu$ Sv/h (1 mR/h):** approximately 1 beep every 20 seconds  
**1 mSv/h (100 mR/h) and above:** continuous signal to at least 60 Sv/h

#### Energy range:

45 keV/h to 6 MeV.

#### Dose rate response:

Linear to 50 mSv/h (5 R/h)

#### Battery:

2 alkaline batteries size AAA. Typical battery life = 1 year

#### Temperature range:

-20° to +50°C

#### Dimensions:

148mm long, 27mm wide, 16mm high (22mm at clip)  
Weight = 78 g with batteries

## Beeper Sv monitor

The Beeper Sv is a simple, robust pocket radiation monitor. With its audible warning of radiation dose rate and display of dose received, it is the ideal instrument for safeguarding all personnel against the hazards of X and Gamma radiation.

There are no controls (except for the optional switch to turn off and reset the unit) The display gives a continuous indication of accumulated dose. The beep sounds approximately every 15 minutes with background radiation levels, and the beep rate increases with dose rate to become continuous in high radiation fields. In addition, a series of quiet clicks from the loudspeaker indicates that the instrument is functioning correctly. An increase in the length of the beep from 0.1 of a second to 1 second indicates that the batteries need changing.

### Features

- slim and compact – fits easily into a breast pocket
- light and robust splash-proof case with reliable clip
- display can be easily read with instrument in breast pocket
- loud beep – audible in any environment
- good energy and polar response – readings will match those from TLDs and film badges
- long battery life (1 year) with clear battery low indicator

### Technical Data

#### Bleep rates:

**Background radiation:** approximately 1 beep every 15 minutes  
**10  $\mu$ Sv/h (1 mR/h):** approximately 1 beep every 20 seconds  
**1 mSv/h (100 mR/h) and above:** continuous signal to at least 60 Sv/h

#### Energy range:

45 keV to 6 MeV

#### Dose rate response:

Linear to 50 mSv/h (5 R/h)

#### Display:

LCD 1  $\mu$ Sv to 999999  $\mu$ Sv

#### Battery:

3 alkaline batteries size AAA. Typical battery life = 1 year

#### Temperature range:

-20 °C to + 50 °C

#### Dimensions:

152mm long, 35mm wide, 16mm high (23mm at display)  
Weight = 106 g with batteries

#### Options: (factory fitted)

- 1 A switch to turn off the unit & reset the display – recessed to prevent accidental movement
- 2 A quiet beep
- 3 An alternative beep rate – increased or reduced by a factor of 2 or 4

Performance data based on an evaluation of the Beeper Sv by the National Radiological Protection Board. The company reserves the right to make changes to specifications and technical details without notice.

