

# RADIATION ALERT® SENTRY EC

RADIATION ALERT® PERSONAL ALARMING  
RATE METER & DOSIMETER

The Radiation Alert® Sentry is a Personal Alarming Dosimeter / Rate-meter designed to ensure the safety of personnel that work in occupations with potential x-ray or gamma exposure.

The pocket sized unit has an energy compensated tube for a linear response to gamma and built in memory for recording data points for tracking accumulated exposure. The included SentryCom Software enables you to generate incident reconstruction for analysis. The software also permits you to easily set the vibrating and audio alert to your desired levels for dose ( $>1.0$  mR/10  $\mu$ Sv) and dose rate ( $>1.0$  mR/hr/10  $\mu$ Sv/hr).



Use the audio switch to choose between audible clicks with each count received or a discreet silent mode.

## Specifications

### Detector

Sentry EC: Energy Compensated GM Tube

### Operating Range

Dose Rate: 0.1 - 15 R/hr

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Accumulated Dose: 0.1 - 65 R

### Dose Rate Linearity

Better than  $\pm 15\%$  up to 15 R

### Energy Response

Sentry USB:  $< 20$  KeV

### Gamma Sensitivity

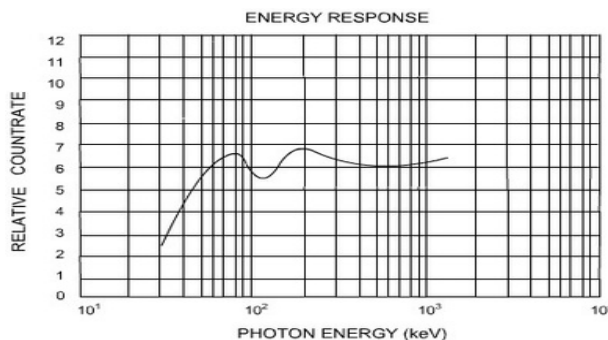
1.5 cps/mR/hr referenced to Co-60

### Switch Functions

Power, Audio Clicks On/Off, Vibrate & Audible Alert, Silent Vibrating Only Alert

### Audible Alarms

Accumulated Dose & Dose Rate 90db @ 1 ft.



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## Alarm Thresholds

Default: Dose 500 mR / Rate 50 mR/hr

Sievert Option:

Dose 5000  $\mu$ Sv / Rate 500  $\mu$ Sv/hr

Alarm and warning levels are user selectable with Optional Sentry Software.

## Connectors

mini-USB.

## Power Requirements

9 Volt Battery. 1500 hrs at normal background.

## Temperature Range

-20° - + 50°C (-4° - +122°F)

## Size

106 x 67 x 28 mm (4.2 X 2.7 X 1.1 in) Weight

## Weight

243 g (8.6 oz)

## Enclosure

Anodized Aluminum Housing w/ Metal Belt Clip

## Size

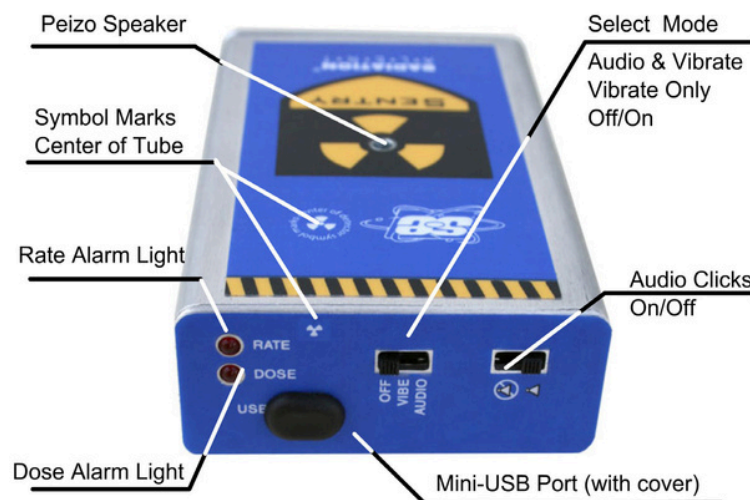
106 x 67 x 28 mm (4.2 X 2.7 X 1.1 in)

## Includes

NIST Calibration, 9 volt battery, Free SentryCom software download, USB Cable

## Limited Warranty

1 year limited



## SentryCom Software

The free SentryCom Software enables you to easily integrate The Sentry into your radiation safety program by allowing you to select the thresholds alarms/warnings to your desired levels for dose (>1.0 mR/10  $\mu$ Sv) and dose rate (>1.0 mR/hr/10  $\mu$ Sv/hr). You can set the Cal Factor, and the data logging frequency, and download the accumulated dose data as a text file. The report includes a delimited time and date stamp, exposure, and power cycle identifiers for easy recording and incident analysis in most spreadsheet programs. Units of measurement can be changed between mR/hr and  $\mu$ Sv/hr to fit your application and reporting needs.

The SentryCom Software comes complete with mini-USB cable.

