

Sentry EC

Alarming Dosimeter/Chirper



Personal Alarming Dosimeter and Rate Meter

The **Radiation Alert® Sentry EC** 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 SentryCom Software option 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 and dose rate.

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

SPECIFICATIONS

Detector

Energy Compensated GM Tube

Dose Rate Linearity

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

Energy Response

Down to 20 KeV

Accuracy

Typically $\pm 15\%$ of reading (Cs137)

Gamma Sensitivity

1.5 cps/mR/hr (Co60)

Switch Functions

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

Operating Range

Dose Rate: 0.1 mR/hr - 15 R/hr (1 μ Sv/hr - .15 Sv/h)

Audible Alarms

Accumulated Dose & Dose Rate, 90db @ 1 ft.

Enclosure

Anodized Aluminum Housing w/ Metal Belt Clip

Alarm Thresholds

Default: Dose 500 mR / Rate 50 mR/hr

Sievert Option:

Dose 5000 μ Sv / Rate 500 μ Sv/hr

Alarm and warning levels are user selectable with the optional SentryCom Software.

Power Requirements

9-Volt Alkaline Battery Approx. 1500 hrs at normal background.

Outputs

Mini-USB

Temperature Range

-20° - + 50°C (-4° - +122°F)

Weight

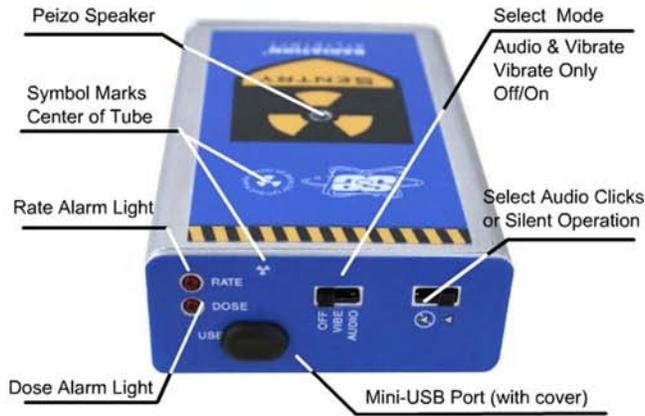
243 g (8.6 oz)

Size

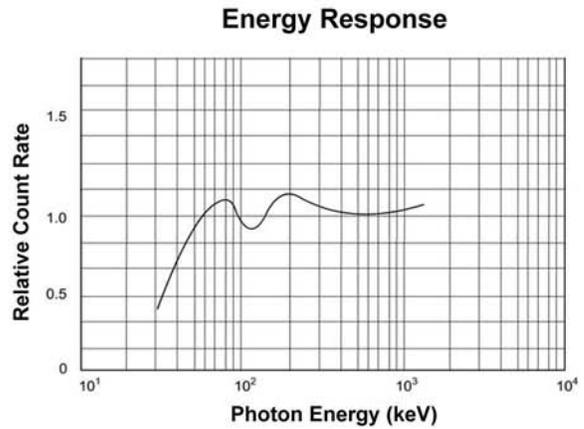
106 x 67 x 28 mm (4.2 X 2.7 X 1.1 in)

Limited Warranty

1 year limited



SENTRY Functions

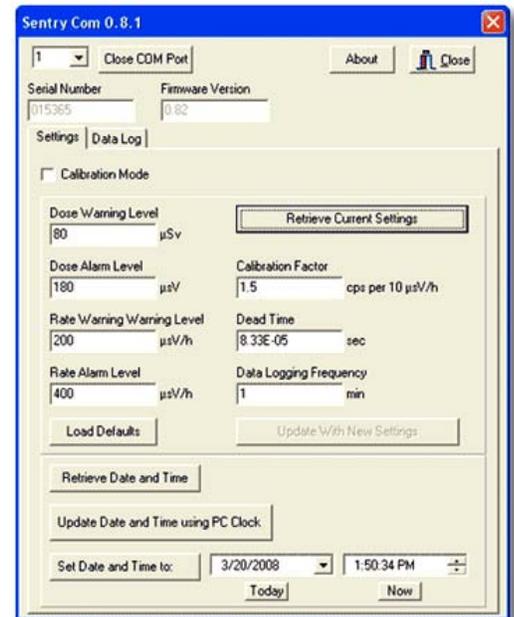


SentryCom Software

The optional SentryCom Software enables you to easily integrate The Sentry into your radiation safety program by allowing you to select the thresholds for dose and dose rate alarms/warnings. 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 $\mu\text{Sv/hr}$ to fit your application and reporting needs.

The SentryCom Software comes complete with mini-USB cable.

NOTE: Some older operating systems require access to Windows Update to download the standard USB-Serial drivers to connect to the Sentry EC with the provided USB cable.



Optional SentryCom Software



SENTRY on Belt Clip

