

THE SENTRY EC

RADIATION ALERT® PERSONAL ALARMING
RATE METER & DOSIMETER

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The Radiation Alert® Sentry EC is a Personal Alarming Dosimeter / Ratemeter 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 µSv) and dose rate (>1.0 mR/hr/10 µSv/hr).

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

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 (Cs^{137})

Gamma Sensitivity

1.5 cps/mR/hr (Co^{60})

Switch Functions

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

Operating Range

Dose Rate: 0.1 - 15 R/hr

Accumulated Dose: 0.1 - 65 R

Audible Alarms

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

Alarm Thresholds

Default: Dose 500 mR/Rate 50 mR/hr

Sievert Option:

Dose 5000 µSv/Rate 500 µSv/hr

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

Power Requirements

9-Volt Alkaline (included). Approx. 1500 hrs. at normal background.

Enclosure

Alodized Aluminum Housing w/ Metal Belt Clip

Outputs

Mini-USB



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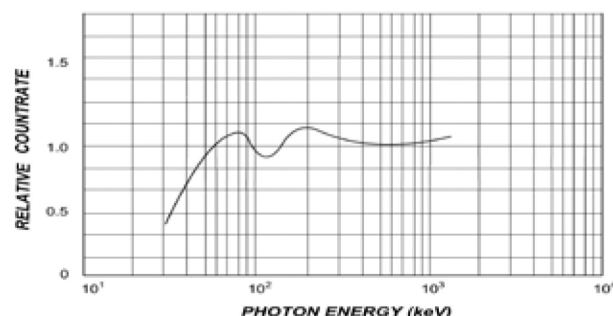
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The rugged Alodized Aluminum Housing protects the unit in tough industrial environments

Sentry USB Energy Compensated GM Energy Response



Temperature Range

-20° - + 50°C (-4° - +122°F)

Weight

228 g (8 oz)

Size

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

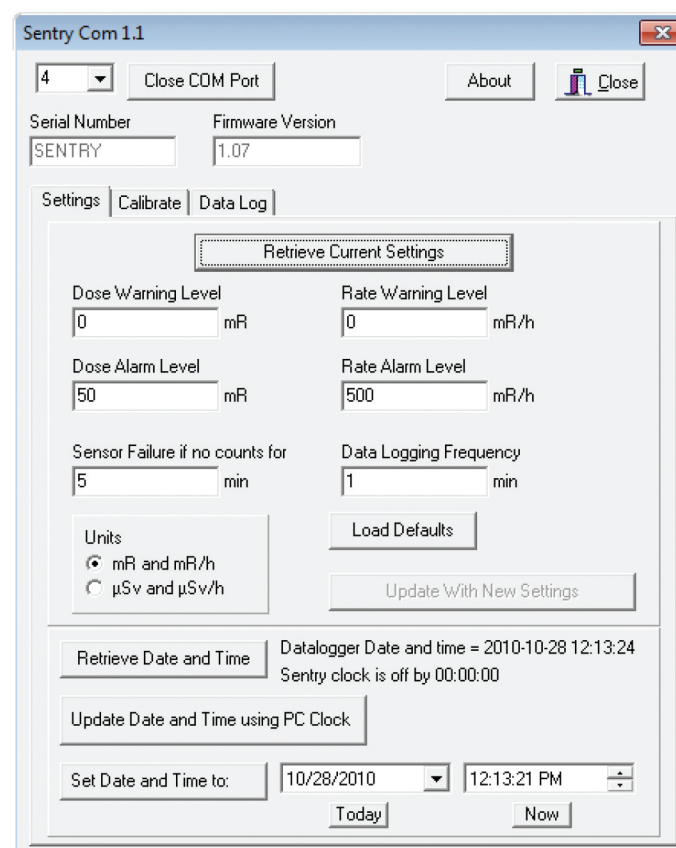
Limited Warranty

1 year limited

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 alarms/warnings to your desired levels for dose (>1.0 mR/10 μ Sv) and dose rate (>1.0 mR/hr/10 μ 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 μ Sv/hr to fit your application and reporting needs.

The SentryCom Software comes complete with mini-USB cable.



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