RADIATION ALERT®

PEN DOSIMETER









Radiation Alert® Pen Dosimeters

Advanced PEN radiation dosimeters are direct-reading personal radiation dosimeters designed to accurately measure and display accumulated gamma and X-ray dose. Engineered for durability and precision, these dosimeters deliver higher reliability and build quality than typical dosimeters of their class, making them suitable for professional and technical radiation monitoring applications.

Accurate Cumulative Dose Measurement

PEN dosimeters provide a direct visual reading of total radiation exposure, allowing users to quickly determine accumulated dose without external readers or electronics. This makes them ideal for environments where real-time awareness of personal radiation exposure is required.

Rugged, Hermetically Sealed Design

Each PEN radiation dosimeter features a sturdy metal clip for secure attachment to a pocket, belt, or equipment, ensuring consistent monitoring during use. The dosimeters are hermetically sealed and immersion-proof, offering reliable performance in harsh or demanding environments.

Standards-Compliant & Mission-Ready

PEN dosimeters are designed to meet military and industry specifications, including requirements for the RADIAC Meter IM-264/PD as well as ANSI N13.5 and ANSI N322 standards. This compliance supports their use in regulated, technical, and safety-critical applications.

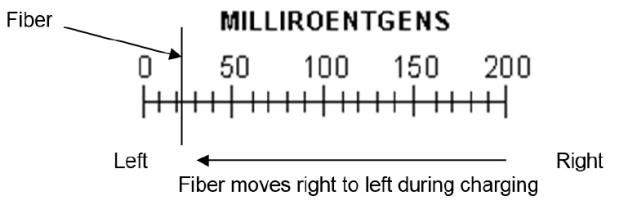
Reliable Personal Radiation Monitoring

By providing accurate measurement of radiation exposure received over time, PEN radiation dosimeters support effective personal radiation safety monitoring for professionals working in environments where gamma and X-ray radiation may be present.

Specifications

Exposure Range (gamma and x-rays)

PEN200mR Scale increments of 10mR
PEN500mR Scale increments of 20mR
PEN2R increments of 100 mR
PEN5R increments of 200mR
PEN20R increments of 1R
PEN2mSv increments of .1mSv
PEN5mSv increments of .2mSv
National Stock Numbers Available



RADIATION ALERT®
by S.E. INTERNATIONAL, INC.
Reliable Radiation Detection Solutions
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Energy Dependence
±10% maximum change in sensitivity for x and gamma ray energies from 16 keV to 6 MeV.

Electrical Leakage
In the absence of radiation, the dosimeters leakage or self discharge is less than 0.5% of full scale in 24 hours at 50° C. At 20° C dosimeters will read background radiation. After gross over exposure totaling up to 2000 R, the leakage is less than 5% of full scale in 48 hours at 20° C. Thereafter, the leakage will decrease to original values.

Accuracy
±10% of true dose for Cs-137 or Co-60 gamma.

Charging Voltage
Dosimeters are capable of being charged to “zero” with 140 to 195 volts.

Operational Characteristics
A maximum change in sensitivity of ±10% may occur under any probable combination of the following:

A) Temperature range below -20°C (-4°F) or above +50°C (122°F)

B) Greater than 50,000 foot altitude for one month

C) Relative humidity greater than 95% Highly resistant to shock and vibration.

Rate Response
Radiation dosimeter are dose rate independent

Enclosure Material
Barrel – carbon fiber-filled, high-strength, electrically-conducting plastic with metal clip.



Weight
Approx. 19 grams (0.7 oz.)

Size
PEN- 200, 500 2mSv, 5mSv Length: 11 cm (4.48 inches) Diameter: 1.5 cm (0.6 inches) PEN- 2, 5, 20 Length: 11.5 cm (4.52 inches) Diameter: 1.5 cm (0.6 inches)

Options
Dosimeter Charger Sold Separately, Dosi-Lite Pen Dosimeter Light

Warranty
2 year limited warranty



Dosi-Lite Pen Dosimeter Light / See Your Readings More Easily

The Dosi-Lite provides illumination for a Direct-Reading Dosimeter in low light conditions which is held directly in front of the eye for viewing. The Dosi-Lite comprises of a light-emitting diode (LED) enclosed in a thimble-shaped flexible plastic casing, which slides onto the end of a dosimeter. When the user squeezes the casing, the leads are brought into contact with the batteries, thereby completing the circuit, lighting the LED, and illuminating the Direct-Reading Dosimeter.

The Dosi-Lite is designed for personnel that spend extended periods in areas with lighting which is insufficient or inconvenient for reading the Direct-Reading Dosimeter, thus running the risk of being exposed to excessive radiation before taking the next reading. The Dosi-Lite provides a convenient illuminating device for Direct-Reading Dosimeters that fits onto the end of a Direct-Reading Dosimeter.

Material: Black PVC

Size

0.6″ I.D. x 0.71″ O.D. x 1.64″ Overall Length

Weight

0.5 oz.

Power

(2) A76 Alkaline Battery

Light

LED Ultra Bright Green Water Clear Light

Battery Life

In excess of 800 service hours

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