Model AT-725 Pencil Dosimeter

Features

- Sensitive to Gamma and X-ray
- 0–5 R
- Lightweight
- Hermetically Sealed
- Sturdy Pocket Clip
- Meets ANSI N13.5 & N322
- Responds Well to Fast Pulse X-Rays
- Low Leakage, Measures Background



Introduction

This direct reading dosimeter is a ruggedly constructed precision instrument for measuring and directly reading accumulated dose of gamma and X-ray radiation exposure up to 5 R. Applications include personal and environmental monitoring. The low-energy feature has hospital applications including fluoroscopy, portable radiography, and angiography. A hardened sapphire end window provides clean, scratchproof viewing of measurements. This pocket sized instrument is lightweight and has a sturdy clip to attach to an individual's pocket for constant use.

Specifications

Part Number: 51-2939

RANGE: 0–5 R ENERGY RESPONSE: 16 keV to 2 MeV RADIATION DETECTED: gamma and X-ray from 16 keV to 6 MeV DETECTOR: fiber electrometer mounted in an electrically conducting plastic ion chamber DETECTOR HOUSING: very low permeability plastic, hermetically sealed FINISH: barrel and end caps: natural matte black; clips: color coded plastic (color signifies range) or metal clips ACCURACY: within 10% of true exposure RATE RESPONSE: dose rate independent for gamma and X-ray radiation ELECTRICAL LEAKAGE: less than 1.0% of full scale for 24 hours at 50 °C (122 °F) TEMPERATURE RANGE: -20 to 50 °C (-4 to 122 °F) RELATIVE HUMIDITY: up to 90% DIMENSIONS: 1.5 x 12.4 cm (0.6 x 4.5 in.) (Dia x L) WEIGHT: 25 g (1.0 oz) WARRANTY: 2 year limited warranty QUALIFICATIONS: meets ANSI Specifications N13.5 and N322-1997

Options

Model AT-138: same as Model AT-725, but has a Range of 0–200 mR Part Number 51-2936
Model AT-1385: same as Model AT-725, but has a Range of 0–2 mSv Part Number 51-2937
Model AT-909: a compact, lightweight charger for direct reading dosimeters, uses two "AA" cell batteries, capable of recharging thousands of dosimeters Part Number 51-2938
Model The_Charger: a compact, lightweight piezoelectric generator that can zero a variety of quartz and carbon fiber dosimeters, no batteries required Part Number 51-2940

Dosimeter Light: LED light that attaches to dosimeter permitting it to be read in low-light conditions Part Number 51-2956

Ludium Measurements, Inc. P.O. Box 810, Sweetwater, Texas 79556 Web: http://www.ludiums.com Tel: 800-622-0828 / 325-235-5494 / Fax: 325-235-4672 / Email: sales@ludiums.com Note: specifications subject to change without notification. We are not responsible for errors or omissions.