

Model W138

The Direct-Reading Dosimeter is a pocket-size, carbon-fiber electroscopes with an ion chamber for detecting and indication of integrated exposure to Gamma and X-Ray radiation. It has a thin wall which permits the penetration and detection of radiation. This model comes with a hardened sapphire window that won't scratch even in the toughest of conditions.

Dosimeters are extremely sensitive instruments. Although they are constructed for rugged use, they should receive the same care as a wristwatch. Since dosimeters are hermetically sealed at the factory, they cannot be repaired or adjusted in the field. Therefore, if instrument malfunctioning is experienced, the instrument should be returned to the factory or your dealer. Dosimeters may be maintained in operating condition simply by cleaning the eyepiece lens and the charging switch insulator with clean water and a cloth that is free of lint and grit. Make sure the charging switch insulator is absolutely free of lint and moisture at all times. Caution: Do not insert any sharp objects into, or tamper with parts in the charging switch recess. Irreparable damage may be done.

Arrow-Tech, Inc. recommends a yearly calibration of the Direct-Reading Dosimeter which is generally consistent with good health physics practices. More frequent calibration may be necessary should the user's license require a shorter calibration interval.

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Specifications:

Radiation Detected: Gamma and X-Ray from 16 keV to 6 MeV

Range: 0-200mR

Detector: Fiber-Electrometer mounted in an Electrically Conductive Plastic Ion Chamber

Detector Housing: Very low permeability plastics - Hermetically-Sealed

Accuracy: +/- 10% of true exposure

Rate Response: Dose rate independent for Gamma and X-Ray

Electrical Leakage: Less than 1.0% of full scale for 24 hours at 50 C

Temperature Range: -20 degrees C to +50 degrees C

Relative Humidity: Up to 90%

Dimensions: 4.5" (12.4 cm) Length X .6" (1.5 cm) Diameter

Weight: 1.0 oz. (25 grams)

Finish: Natural Matte Black with a Metal Clip

Warranty: Two Year Limited Warranty

Shelf Life: 20 Years

Specifications: ANSI N13.5 and ANSI N322-1997

