

Dosimeter/Rate Meter

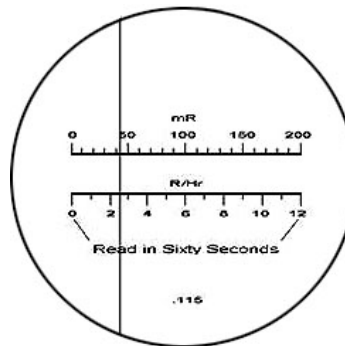


The Dosimeter/Rate Meter looks just like a normal pen-type dosimeter.

Arrow-Tech, Inc. enhanced the Model AT-138, 0-200 mR Direct-Reading Dosimeter by adding a Rate Meter Scale.

The advantage of this instrument is that you can read the total dose received in milliroentgens (mR) on the top scale

Then, after resetting the dosimeter back to "0", the user can check the dose rate (R/Hr) by timing the lower scale response for 60 seconds.



This reading would indicate a total dose of 42 mR or a dose rate of 2.5 R/hr assuming the reading was for 60 seconds.

Specifications

Radiation Detected:	Gamma and X-Ray from 16 keV to 6 MeV
Range:	0 – 200 mR
Rate Meter:	0 – 12 R/hr
Detector Housing:	Very low permeability plastics-hermetically sealed
Accuracy:	Within + or – 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:	Length: 4.5" (12.4 cm) Diameter .6" (1.5 cm)
Weight:	1.0 oz (25 grams)
Finish:	Barrel and End Caps are Natural Matte Black with Metal Clip
Warranty:	2 Year Limited Warranty
Detector :	Fiber Electrometer mounted in an electrically conductive plastic ion chamber

The Direct-Reading Dosimeter is a pocket-size, carbon-fiber electroscopes with a thin-walled chamber for detecting exposure to Gamma and X-Ray radiation. Accumulated radiation is read directly on an internal calibrated scale. A Dosimeter Charger is required in order to return the dosimeter to zero after each exposure or when desired.

This model is available with a protective hard (sapphire) window to prevent the lens from being scratched in a harsh environment.