RAM ION Portable Ion Chamber

Recommended for use with all radiation sources including Pulsed X-Ray units like the Golden XRS*

*alarms on 1st pulse – faster than any other instrument tested

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RAM ION Portable Ion Chamber Survey Meter

The **RAM ION DigiLog** is a battery operated, auto ranging portable ion chamber survey meter designed for highly stable and accurate measurement of dose rates and integrated does of gamma, x-ray and beta radiation.

Featuring:

- *Display consisting of a smoothed digital readout for minimum fluctuation and a two decade analog bar graph for fast response.*
- *Compact, handheld, lightweight, rugged meter, easy to use and maintain. Very straight forward, fast and reliable method of collecting, storing and monitoring data on site for later use.*
- *Bar code labels that identify measurement location. The measurement's data combined with its location, data and time are stored in a built-in memory.*
- *Ideal for use in nuclear power plants, nuclear medicine, radiography and radiotherapy facilities, life science laboratories, nuclear research centers.*
- *Freeze mode to record the highest dose*
- *User programmable dose rate and accumulated dose alarms*
- *Remote PC communication*

Specifications:

- **Measuring Range:** *1 µSv/hr to 500 mSv/hr*
  Display Range: *0.1 µSv/hr to 500 mSv/hr*
- **Accuracy:** *±10% of reading within measuring range*
- **Gamma Energy Dependence (137Cs):** *Better than ±20% at 20 keV to 1.3MeV*
- **Angular Dependence (137Cs):** *Less than ±5% (for ±120˚ of front direction)*
- **Ion Chamber Volume:** *500 cc*
- **Chamber Wall and Cover Thickness:** *300mg/cm^2 (tissue equivalent);* **Window Thickness:** *7mg/cm^2*
- **Response Time:** *2 sec for reading above 1 mR/h; 5 sec for auto-ranging change, from Low to High Range*
- **Power Source:** *Two 1.5 C-type Alkaline cells – 100 hours of continuous operation.*
- **Display:** *DigiLog (3 digits and 2 decades of analog bar graph)*
- **Data Logging:** *347 data records (1415 with extended memory)*
- **Temperature Range: Operation:** *15˚F to 122˚F (-10˚C to 60˚C);* **Storage:** *-4˚F to 122˚F (20˚C to 60˚C)*
- **Humidity Range:** *Up to 95% RH (non-condensing)*
- **Dimensions:** *3.9" x 9.8" x 7.5" (10 x 25 x 19 cm);* **Weight:** *2.4 lbs. (1.1 Kg)*