



MIRION
TECHNOLOGIES

This product is available through:

JRT Associates 800-221-0111



FEATURES...

The RAM-ION is designed for highly stable and accurate measurement of dose rates and integrated dose of gamma, x-ray and beta radiation and covers a measuring range of 0.1 mR/h to 50 R/h (1 μ Sv/h - 500 mSv/h) in the dose rate mode, and 1 μ R to 1000 R (0.01 μ Sv - 10Sv) in the integrated dose mode

- compact, lightweight and rugged construction
- easy to use and maintain
- combination display consisting of a smoothed digital readout for minimum fluctuation and a two-decade analog bar graph for fast response
- user programmable dose rate and accumulated dose alarms

RAM-ION

Portable ion Chamber Survey Meter

The RAM ION Digilog provides a very straightforward, fast and reliable method of collecting and storing survey data on site for later use.

The RAM ION Digilog can read bar code labels that identify measurements location. The measurements data combined with their locations, data and time are stored in a built in memory. The stored data records can be downloaded by the SMARTS (Survey Mapping Automated Radiation Tracking System) software or manually for custom applications.

The RAM ION Digilog is ideal for use in nuclear power plants, nuclear medicine, radiography and radiotherapy facilities, life science laboratories, nuclear research centers and in other industrial applications.



health physics

A Mirion Technologies Division

Featuring:



TECHNICAL SPECIFICATIONS:

Radiological Characteristics

- measuring range: 1 μ Sv/hr to 500mSv/hr (0.1 mR/hr to 50R/hr)
- display range: 0.1 μ Sv/hr to 500mSv/hr (0.01 mR/hr to 50R/hr)
- accuracy: $\pm 10\%$ of reading within measuring range
- gamma energy dependence - better than $\pm 20\%$ at 20keV to 1.3MeV (related to 137Cs)
- angular dependence - less than $\pm 5\%$ (for $\pm 120^\circ$ of front direction, related to 137Cs)
- ion chamber volume: 500 cc
- chamber wall and cover thickness 300 mg/cm² (tissue equivalent)
- window thickness: 7 mg/cm²
- response time: 2 sec for readings above 1 mR/h 5 sec for auto-ranging change, from Low Range to High Range (2sec. + 3 additional seconds for auto ranging delay)

Electrical Characteristics

Power Source

- meter: two 1.5V C-type Alkaline cells - 100 hours of continuous operation
- laser scanner: One 9V Alkaline cell - 6000 operations (built in automatic battery check)

Mechanical Characteristics

- meter dimensions: (w x l x h): 10 x 25 x 19 cm (3.9 x 9.8 x 7.5 in)
- weight: 1100 g (2.4lb)
- casing: high impact ABS

Environmental Characteristics

Temperature:

- operation: -10°C to +50°C (15°F to 122°F)
- storage: -20°C to +60°C (-5°F to 140°F)
- relative humidity: 10 to 95% RH (non-condensing)



RAM-ION with Optional Integrated
WRM2 Transmitter



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