



RAM ION Meter

Highly Stable and Accurate Beta Gamma Detector Pulsed X-ray Detection

Radiation Detection Division Health Physics

Distributer Price List



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

The meter covers a measuring range of 1 μ Sv/h - 500 mSv/h (0.1 mR/h to 50 R/h) in the dose rate mode, and 0.01 μ Sv -10 Sv (1uR to 999 R) in the integrated dose mode. The auto ranging meter utilizes a combination display consisting of a smoothed digital readout for minimum fluctuation and a two decade analog bar graph for fast response.

The **RAM ION** survey meter combines an ionization chamber vented to atmospheric pressure, and a micro-controller to offer optimal performances and special features. Furthermore, it is a compact hand-held, lightweight, rugged meter, easy to use and maintain.

The **RAM ION** provides a very straightforward, fast and reliable method of collecting and storing monitoring data on site for later use. The **RAM ION** can read bar code labels that identify measurement's location. The measurement's data combined with their locations, data and time are stored in a built-in memory. The stored data records can be downloaded by the **RMV** (Rotem Meter View) software package.

The **RAM ION** 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.

Features

- NDT safety providing accurate readings from 5 picosecond X-Ray pulses
- New USB connector providing both power and Communication capabilities
- Wide measuring range of 1 µSv/hr to 500 mSv/hr (0.1 mR/hr to 50 R/hr)
- Built in memory to store data
- · Compact, lightweight, and easy-to-use, one hand operation
- Dose rate and accumulated dose measurement
- Display illumination
- Freeze mode to record the highest dose
- User programmable dose rate and accumulated dose alarms
- Remote PC communication
- Hot Spot detection



RAM ION Survey Meter

Technical Data

 $\begin{tabular}{lll} \begin{tabular}{lll} \begin{$

Beta Energy Dependence Better that ± 20% from 200keV

Angular dependence Less than ±5 % (for ±120° of front direction)

Ion chamber volume 500 cc Chamber wall & cover thickness 300 mg/cm²

End window thicknessDouble layer of Mica 3.1 mg/cm² **Response time**2 sec. for readings above 1 mR/h

Capable of measuring pulses X-rays from 5 pico sec.

Data logging380 data records (1415 with extended memory)DisplayDigiLog (3 digits and 2 decades of analog bar graph)

Power source USB Mini Cable or Two 1.5 Volt C-type cells

100 hours of continuous operation

Automatic battery check

Temperature range Operation: -10°C to +50°C (15°F to 122°F)

Storage: -20° C to $+60^{\circ}$ C (-5° F to 140° F)

Humidity rangeUp to 95% RH (non condensing)Casing MaterialHigh Impact Splash Proof ABS

Dimensions Width: 10 cm (3.9") Length: 25 cm (9.8")

Height: 19 cm (7.5")

Weight 1100g (2.4lb)

New – USB mini connector providing

power and Coms

Ordering Information

BAK-1940 RAM ION DIGILOG **HR** (0.0) - μ Sv/h Radiation Detection Survey Meter BAK-1920 RAM ION DIGILOG **HR** (0.00) - mR/h Radiation Detection Survey Meter BAK-1950 RAM ION DIGILOG **LR** (0) - μ Sv/h Radiation Detection Survey Meter BAK-1930 RAM ION DIGILOG **LR** (0.0) - mR/h Radiation Detection Survey Meter

BAK-2000 RAM ION DIGILOG X HR (0.0) - uSv/h Radiation Detection Survey Meter (new)

RAM ION DIGILOG X HR (0.00) - mR/h Radiation Detection Survey Meter

BAK-2005 (new)

BAK-2010 RAM ION DIGILOG \times LR (0) - μ Sv/h Radiation Detection Survey Meter BAK-1990 RAM ION DIGILOG \times LR (0.0) - mR/h Radiation Detection Survey Meter

HR = High Resolution – 1 or 2 decimal digits (depending on units of measurement)

LR = Low Resolution – no or 1 decimal digit (Depending on units..)

X = Used to measure pulsed X-rays. Instrument powers up in Dose Mode.

ROTEM INDUSTRIES reserves the right to change specifications without advance notice



NDT Supply.com, Inc. 7952 Nieman Road Lenexa, KS 66214-1560 USA

Phone: 913-685-0675, Fax: 913-685-1125 e-mail: sales@ndtsupply.com, www.ndtsupply.com



