

RAD-ION / RI-02

Portable Ion chamber survey meter

The RAD-ION is the next generation ion chamber survey meter. This smart meter features accurate rate & dose measurement and programmable modes for alerting the user to posting and transportation survey requirements. The RAD-ION is a world class solution for use in nuclear power plants, nuclear medicine, radiography, life science, research and other industrial applications

Designed for highly stable and accurate measurement of dose rates and integrated dose of gamma, x-ray and beta radiation

Covers a measuring range of $1\mu\text{Sv/h}$ to $1,000\text{ mSv/h}$ (0.1 mR/h to 100 R/h) in the dose rate mode and $0.01\ \mu\text{Sv}$ to 10 Sv ($1\mu\text{R}$ to 1000 R) in the integrated dose mode.

**FEATURES**

- Beta & Beta Gamma identification
- Freeze Mode
- Compact, lightweight and rugged construction
- Integrated WRM2 wireless module (optional)
- Custom LCD display with LED backlight
- Auto range Digilog display
- Long battery life: 100 hours
- USB connectivity for online data transmission
- Easy replacement of batteries
- Easy replacement of silica gel container

APPLICATIONS

- Nuclear Power Plant surveying instrument
- Posting Tool for NPP's
- X-Ray machines safety instrument
- NDT surveying instrument for safety

Features

- Large visible characters and numbers via LCD display
- 4 "Touch pad" buttons
- Beta slide window – Icon identification differentiating between Gamma and Gamma Beta readings.
- Beta correction factor
- Automatic offset 'zeroing' function
- Calibration mode
- Data storage
- Integrated Dose mode

Specifications

Application: gamma and X-ray exposure survey meter with beta response

Range: Display: 0.00 mR/h to 100 R/h
Measuring: 0.0 mR/h to 100 R/h
Dose: (D&M): 0.01 mR to 1000 R

Energy Response: within 20% of true value from 40 keV-2 MeV

Linearity: reading within 10% of true value

Response Time: 2 seconds in fast transition, till 30 secs for gradual transition

Chamber Volume: 350 cm³

Side Wall: Plastic – 300 mg/cm²;
Al – 1000 mg/cm² available upon request

Beta Shield: retractable 1000 mg/cm² aluminium slide

Window: 7 mg/cm² cloth material

Window Area: 50 cm² (7.8 in²)

Temperature Range: -10°C to 50°C (23°F to 122°F);

Display: multi-segments liquid Crystal display with LED backlight

Pushbuttons: 4 pushbutton, simple operation

Power: 2 each "C" cell batteries housed in a sealed externally accessible compartment

Battery Life: 100 hours

Data Connection: USB for calibration, configuration, upgrade firmware and stored data points

Size: 21 cm (8.25") L x 11.5 cm (4.5") W x 15.2 cm (6") H
(without handle)

Weight: 1.4 Kg (3 lbs) (with batteries)

Construction Material: Hi Impact SABIC Cycloy C2800

Optional Internal 900 MHz or 2.4 GHz WRM2 Radio

Software

- Calibration (via USB or WRM2)
- Configuration (via USB or WRM2))
- Firmware update (via USB)
- Download meter reading (via USB or WRM2)

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Our Radiation Detection Department, with over 30 years experience, specializes in the development, production and marketing of instrumentation and systems for the Homeland Security, Nuclear Power Plant and Nuclear Medicine Industries.

Perfection
In
Detection



Rotem Model# BAK-3740 (mR/h)
BAK-3741 (µSv/h)

ROTEM INDUSTRIES reserves the right to change specifications without advance notice

ROTEM INDUSTRIES LTD.

Radiation Detection Department

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