

Product Datasheet

Radhound

Multi-purpose Digital Radiation Meter

A multi-purpose digital radiation survey meter suitable for all your contamination monitoring and radiation protection requirements, the Radhound is a cost effective, feature packed digital radiation monitor that is simple and easy to use.

Count rate or dose rate is displayed in large clear numbers and also on a bar scale. Our smart averaging software means a steady display that can be read with confidence, yet provides a fast response.

For source finding, one button push changes the display to a histogram plot. Alpha and Beta/Gamma counts can be displayed separately or on the same screen when used with the appropriate probe.

For surveying operations the Radhound also has an integrator mode.



Application Areas

- Health physics: for contamination monitoring on surfaces, clothing and objects etc.
- Nuclear medicine departments: suitable for ^{125}I , $^{99\text{m}}\text{Tc}$, etc.
- Radiological survey work and lab use.
- Emergency planning, response and clean up.
- Research applications.

Features

- Clear LCD display with backlight.
- GM and scintillation detectors for contamination and dose rate measurements.
- Scaler timer function.
- Ergonomic tilt stand.
- Wall mountable.
- Fully adjustable alarm levels.
- Count rate is displayed in large clear numbers and also on a bar scale.
- Time to count function.
- Alpha and Beta / Gamma counts can be displayed separately or on the same screen.

Specifications

Scintillation Detector Options

A number of scintillation probes are available for sensitive contamination measurements of Alpha and Beta/Gamma radiation.

SS404 Al: Low energy gamma scintillation probe.

SS404 Be: Very low energy gamma scintillation probe.

SS440 B: Beta scintillation probe. Active Area 20 cm²

SS500: NaI (TI) 25.4 x 25.4 mm gamma probe.

SS600: A/B/AB: Alpha, beta, alpha/beta dual phosphor. Area 100 cm²

SS700: A/B/AB: Alpha, beta, alpha/beta dual phosphor. Area 50 cm²

Mechanical	
Dimensions	160 x 250 x 85 mm approx. (with stand)
Weight	1.1 kg
Units	CPS, CPM, μ Sv/hr with autorange
Display	Clear backlit LCD Display
Controls	Power, up, down, OK (menu keys)

Radiological Performance	
Range	Count rate or dose rate according to configured probe (see relevant datasheets).
Response Time	0.5 seconds Averaging: 5, 10, 15 seconds Integration time up to 24 hrs
Functionality	Rate, histogram, timed count, count to time, time remaining to dose, alpha beta discrimination (depending on probe)
High Voltage	350 - 1200V selectable in menu (can be locked)
Averaging	'Smart Averaging' provides fluid number change, whilst retaining a response time adjustable between slow, medium and fast

Geiger Müller Detector Options

SS300: Pancake Geiger for alpha, beta, gamma and X-ray radiation.

SS315: End window for alpha, beta, gamma and X-ray radiation.

SS330: Compensated pancake Geiger for ambient gamma radiation H*(10).

SS335: Compensated end window Geiger for ambient gamma radiation H*(10).

SS340: Compensated GM probe for H*(10) measurements.

Power	
Battery	Lithium Ion rechargeable Charger supplied
Battery Life	Typically >12 hours continuous use

Environmental	
Operating Temperature	-10°C to +50°C
Storage Temperature	-25°C to +60°C

Compliance	
Standard Compliance	In conformity with EMC directive (89/336/EEC) as amended by Directive 92/31/EEC Low Voltage Directive (73/23/EEC), EN61326-1, EN61000-3-2, EN6100-3-3. (CE mark). Designed to meet IEC 60325-2006 and IEC 60846-2004 Nuclear Instrumentation Standards

*Dose rate probes are set up to read in μ Sv/hr by default.
For measurements in rem/hr, please specify at point of order.

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.southernscientific.co.uk

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