Product Datasheet

Radhound Alarm

Area Monitor

A low-cost area monitoring solution available with a wide range of probes to suit most applications, the Radhound Alarm is a simple, yet effective solution to area monitoring that makes use of the versatile Radhound radiation monitor.

Features

- **Alarm Beacon**

  A bright LED beacon provides a visual indication of the alarm status of the monitor, and can be placed directly above the Radhound or in a separate location.

  Constant Green: Displayed under normal conditions.

  Flashing Red: Displayed when alarm threshold exceeded.

  Constant red: Displayed on startup or in case of probe fault.

- **Networking**

  The Radhound Alarm can be connected to a PC, allowing real time transfer of results for the purpose of remote monitoring and data logging. Custom software will allow a number of Radhound Alarms to be monitored simultaneously from a central system.

- **Reliable power supply**

  The mains power adapter provided with the Radhound Alarm allows the unit to operate continuously and the internal lithium-ion battery provides up to 12 hours of operation in case of power failure.

- **Simple operation**

  The menus are easy to navigate and advanced options and functions, such as alarm threshold, can be locked as appropriate to ensure that the settings are not tampered with.

- **Low cost**

  Designed to fulfil basic area monitoring requirements, the affordable price of the Radhound Alarm reflects the simplicity of the solution, making it ideal for customers such as hospitals and research facilities.

- **Range of probes**

  The Radhound Alarm can be purchased with any of a number of probes, depending on application, from the SS340 compensated Geiger probe for area monitoring to the SS600 large area, alpha/beta probe for hand monitoring or frisking.

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Specifications

Scintillation Detector Options

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

SS404 Al: 32 x 2.5 mm low energy gamma scintillation probe.

SS404 Be: 32 x 2.5 mm very low energy gamma scintillation probe.

SS440 B: Beta scintillation probe. Area 20 cm^2

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

SS600: A/B/AB: Alpha, beta, alpha/ beta dual phosphor. Area 100 cm^2

SS700: A/B/AB: Alpha, beta, alpha/ beta dual phosphor. Area 50 cm^2

Geiger Müller Detector Options

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

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

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

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

SS340: Side on window Geiger for ambient gamma radiation H*(10).

Mechanical	
Dimensions	250 x 250 x 150 mm approx. (with stand)
Weight	
Units	CPS, CPM, µSv/hr with autorange
Display	Clear backlit LCD Display
Controls	Power, up, down, OK (menu keys

Radiological Performance	
Range	Typically 0 to 99,999 counts per second (range and units are software selectable depending on probe)
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, whist retaining a response time adjustable between slow, medium and fast

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
Cleaning	Radhound is chemical resistant, and can be cleaned with alcohol wipes

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 µSv/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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