

Easily measure scatter & leakage

Scatter & Leakage Protection



Model: RSM

Portability • Convenience

OVERVIEW –

The Radcal Survey Meter (RSM), pressurized ion chamber meter, provides highly sensitive measurements of exposure or dose. It can simultaneously display the rate and either integrated value or highest rate (peak) seen by the instrument. The integrated value or peak rate can be reset using one of the four convenient front panel mounted buttons.

The impressive 256K color display provides an optimized presentation of the data and is accompanied with icons informing the user of the active functions and instrument status. All logged data can be written in csv format to a standard USB thumb drive for convenient retrieval by a PC spreadsheet or database program. Alarms are manifested using color changes on the display and an acknowledgeable audio output.

All Radcal Survey Meters can be used for a variety of medical and health physics applications. They are ideal for measuring exposure rates from leakage and scatter radiation around diagnostic and therapeutic x-ray rooms. Make the Radcal Survey Meter your next choice in the most advanced survey meter available today.

Options

see website for more details

Dimension Interface Package:	PN: 4293-763
Audio Jack Output:	PN: 4293-891
Alkaline Battery Pack:	PN: 4543-028
Carrying Case:	PN: 2310330

THE GOLD STANDARD IN RADIATION MEASUREMENT

RADCAL SURVEY METER FEATURES AND SPECIFICATIONS / TECHNICAL DATA:

KEY FEATURES / MODELS	RSM	RSM1	RSM*
0–50 mSv/h (0–5 R/hr) Range with μ R/hr Sensitivity	✓		✓
0–500 mSv/h (0–50 R/hr) Range		✓	
Special Design for Measuring Pulsed Fields		✓	
Low Pressure Chamber is Non Hazmat		✓	
Provides ICRU-Based Ambient Dose Measurements			✓
Ambient Equivalent Dose or Dose Rate is Flat within 25% from 40 keV–1.3 MeV			✓
Sunlight Readable Color Display	✓	✓	✓
Auto Zeroing & Ranging	✓	✓	✓
Rechargeable Batteries	✓	✓	✓
Alarming Capability	✓	✓	✓
USB Connectivity	✓	✓	✓
Data Logging	✓	✓	✓
Simultaneous Rate and Integrate or Peak Hold Readouts	✓	✓	✓
Free Firmware Updates through Internet	✓	✓	✓

SPECIFICATIONS / TECHNICAL DATA:

All specifications subject to change.

	RSM	RSM1	RSM*
Radiation detected	Gamma & X-rays above 25 keV; beta above 1 MeV		
Operating ranges	With R/hr units: 0–500 μ R/hr, 0–5 mR/hr, 0–50 mR/hr, 0–500 mR/hr, 0–5 R/hr With Sv/h units: 0–5 μ Sv/h, 0–50 μ Sv/h, 0–500 μ Sv/h, 0–5 mSv/h, 0–50 mSv/h	With R/h units: 0–5 mR/h, 0–50 mR/h, 0–500 mR/h, 0–5 R/h, 0–50 R/h With Sv/h units: 0–500 μ Sv/h, 0–5 mSv/h, 0–50 mSv/h, 0–500 mSv/h	With R/hr units: 0–500 μ R/hr, 0–5 mR/hr, 0–50 mR/hr, 0–500 mR/hr, 0–5 R/hr With Sv/h units: 0–5 μ Sv/h, 0–50 μ Sv/h, 0–500 μ Sv/h, 0–5 mSv/h, 0–50 mSv/h
Chamber volume	230 cc (14 in ³) volume pressurized to 8 atmospheres (117 psi)	220 cc volume pressurized to 1.36 atmospheres (20 psi)	230 cc volume pressurized to 8 atmospheres (117 psi)
Accuracy	±10%		
Response time	5 seconds in lowest range, 2 seconds in all other ranges, when measuring from 10% to 90% of final value		
Data logging	Stored to detachable USB thumb drive in csv format for easy retrieval by PC spreadsheet/database programs.		
Temperature range	-20 to 50 °C (-4 to 122 °F)		
USB interface	Single USB port		
Construction	Durable molded plastic with internal metal support		
Alarms	Two levels of radiation alarms available, other alarms include low battery and various detector failures.		
Power	Eight rechargeable "AA" NiMH batteries, supplied with wall charger for direct connection to instrument		
Battery life	12 to 30 hours		
Size	21.9 x 11.6 x 24.5 cm (8.6 x 4.6 x 9.6 in.) (H x W x L)		
Weight	1.5 kg (3.3 lb), including batteries		
LCD Display	Color TFT LCD display with 240 x 320 (H x W) pixels		