

Survey Meter



RTI

From Radiation
to Information

Scatter & Leakage Guard

Scatter and leakage radiation can easily be discovered and measured with the RTI Survey Meter. Since it demands no set up it suits a wide range of end users – anyone who works in a possible risk environment will have use of the RTI Survey Meter.



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Stand-alone Ion Chamber

The RTI Survey Meter, pressurized ion chamber, 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 peakrate can be reset using one of the four convenient front panel mounted buttons.

Color Display and USB

The 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.

High Lights

- 0–50 mSv/h (0–5 R/h) Range with μ R/h Sensitivity
- Sunlight Readable Color Display
- Auto Zeroing & Ranging
- Rechargeable Batteries
- Alarming Capability
- Simultaneous Rate and Integrate or Peak Hold Readouts
- Data Logging
- USB Connectivity
- Free Firmware Updates through Internet



Scatter & Leakage Guard

Specifications

General

Radiation detected	Gamma & X-rays above 25 keV; beta above 1 MeV
Operating ranges	
With R/hr units	0–500 μ R/h, 0–5 mR/h, 0–50 mR/h, 0–500 mR/h, 0–5 R/h
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)
Power	Eight rechargeable "AA" NiMH batteries
Battery life	12 to 30 hours
Accuracy	$\pm 10\%$
Response time	5 seconds in lowest range, 2 seconds in all other ranges, when measuring from 10% to 90% of final value
Data logging	Yes
Temperature range	-20 to 50 °C (-4 to 122 °F)
USB interface	Yes
Construction	Durable molded plastic with internal metal support
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
Display	LCD Color 240 x 320 (H x W) pixels