

Survey Meter SM 7 D

Portable survey meter for the detection of low intensities of alpha, beta, X and gamma radiation



STEP - Sensortechnik und Elektronik Pockau GmbH

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Range of Applications

The Survey Meter SM 7 D is a hand-held, battery powered radiometer to detect low intensities of alpha, beta, X-ray and gamma radiation.

Areas of application:

Medicine, Life-Sciences, Industry, research and development facilities

Measurement of pulse rates in mixed alpha, beta and gamma radiation fields

Evaluation of workplaces

Because of the high sensitivity of the detector, the device is suited for school experiments with natural radioactivity.

Technical specifications

Measuring range	Pulse rate 0 .. 1999.9 cps (measurement range overflow indication) Timer / Impulse 1 .. 119940 counts Measuring time adjustable (10 sec, 30 sec, 60 sec)
Sensitivity	6 cps / μ Sv/h (referring to Co-60)
Energy range	Photons: 10 keV bis 1.3 MeV Beta: qualitatively, energies > 160 keV Alpha: > 2 MeV
Radiation detector	End window Geiger-Mueller tube (area mass density < 2 mg/cm ²), not energy-compensated, effective diameter 44.5 mm
Display	Digital on LCD with background lighting Audible pulse signalisation
Outputs	USB-port (optional) Evaluation software (optional)
Power supply Batteries Battery lifetime	2 x LR 6 Type AA 1.5 V approx. 100 hrs (at background radiation level)
Operating conditions Temperature Rel. Humidity	0 °C ... + 50 °C max. 75 % (at 30 °C)
Weight	≤ 400 g
Dimensions (L x W x H)	152 x 83 x 35 mm



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