

Survey Meter SM 5 D

Portable survey meter for the measurement of the alpha and beta area activity and for local dosimetry of gamma radiation



Technical Specifications

Measuring value	Dose rate equivalent [$\mu\text{Sv/h}$] Area activity [Bq/cm^2]
Measuring range	Local dose rate of photon radiation 0.1 $\mu\text{Sv/h}$... 300 $\mu\text{Sv/h}$ (calibrated with Co-60) (Signal at overflow) Area activity (calibrated at Am-241 and Sr-90) 0.1 .. 199.9 $\text{Bq/cm}^2 \cdot k_a$ ($k_a = 6$ for Am-241) 0.1 .. 199.9 $\text{Bq/cm}^2 \cdot k_b$ ($k_b = 2$ for Sr-90)
Intrinsic error	< 25 % referring to Co-60 < 25 % referring to Sr-90 < 25 % referring to Am-241
Energy range	Photons: 20 keV bis 2 MeV Beta: qualitatively, energies > 35 keV
Radiation detector	End window Geiger-Muller tube (area mass < 2 mg/cm^2), not energy-compensated
Display	Digital on LCD Audible Background lightning
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	≤ 250 g
Dimensions (L x W x H)	145 x 80 x 40 mm



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