

Survey Meter SM 5 D

Portable survey meter for the measurements of low levels of alpha, beta, X and gamma radiation.



Technical Specifications

Model:	SM 5 D
Measuring value:	Dose rate equivalent [$\mu\text{Sv}/\text{H}$] Area activity [Bq/cm^2]
Measuring range:	Local dose rate of photon radiation 0.1 $\mu\text{Sv}/\text{h}$ to 299 $\mu\text{Sv}/\text{h}$ (calibrated with Co-60) (signal at overflow) Area activity (calibrated with Am-241 and Sr-90) 0.1 to 199.9 $\text{Bq}/\text{cm}^2 \cdot k_a$ ($k_a = 6$ for Am-241) 0.1 to 199.9 $\text{Bq}/\text{cm}^2 \cdot k_b$ ($k_b = 6$ 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 >35keV
Radiation detector:	End window Geiger-Mueller tube (area mass density <2 mg/cm^2), not energy compensated
Display:	Digital via LCD screen with background lighting Audible and optical impulse signalization
Power supply:	Batteries; 2 x LR 6 Type AA 1.5 V Battery lifetime approx. 100 hrs (at background radiation level)
Operating conditions:	Temperature- 0°C to + 50°C or 32°F to 122°F Rel. Humidity- approximately 75 % (at 30 °C or 86°F)
Weight:	≤ 250 g, or (0.6 lbs)
Dimensions:	145 x 80 x 40mm (L x W x H), or 5.7 x 3.2 x 1.6 in.