

# 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



STEP - Sensortechnik und Elektronik Pockau GmbH Germany



Distribuito in Italia da **Active RadSys** <http://www.activeradsys.it>  
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# Technical Specifications

Measuring value	Dose rate equivalent [ $\mu\text{Sv/h}$ ] Area activity [ $\text{Bq/cm}^2$ ]
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 $\text{mg/cm}^2$ ), 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 $^{\circ}\text{C}$ ... + 50 $^{\circ}\text{C}$ max. 75 % (at 30 $^{\circ}\text{C}$ )
Weight	$\leq$ 250 g
Dimensions (L x W x H)	145 x 80 x 40 mm



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