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 $[\mu Sv/h]$
- Area activity $[Bq/cm^2]$

#### Measuring range
- Local dose rate of photon radiation
  - $0.1 \mu Sv/h \ldots 300 \mu Sv/h$ (calibrated with Co-60)
  - (Signal at overflow)
- Area activity (calibrated at Am-241 and Sr-90)
  - $0.1 \ldots 199.9 \text{Bq/cm}^2 \cdot k_a$ ($k_a = 6$ for Am-241)
  - $0.1 \ldots 199.9 \text{Bq/cm}^2 \cdot k_b$ ($k_b = 2$ for Sr-90)

#### Intrinsic error
- $< 25\%$ referring to Co-60
- $< 25\%$ referring to Sr-90
- $< 25\%$ referring to Am-241

#### Energy range
- Photons: $20 \text{keV} \text{bis} 2 \text{MeV}$
- Beta: qualitatively, energies $> 35 \text{keV}$

#### 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: $2 \times \text{LR 6 Type AA 1.5 V}$
- Battery lifetime: approx. 100 hrs (at background radiation level)

#### Operating conditions
- Temperature: $0 \degree C \ldots + 50 \degree C$
- Rel. Humidity: $\max. 75\%$ (at $30 \degree C$)

#### Weight
- $\leq 250 \text{g}$

#### Dimensions
- $145 \times 80 \times 40 \text{mm}$ (L x W x H)