

## Alpha-Beta-Gamma-Pocket-Radiometer SVS 5

- portable, battery-operated radiometer to measure the alpha and beta area activity as well as the photon dose equivalent rate of gamma radiation
- Fields of application: laboratories, nuclear power plants, nuclear medicine, environmental conservation, waste disposal and education



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<b><u>Technical Specifications:</u></b>	<b>Alpha-Beta-Gamma-Pocket-Radiometer SVS 5</b>
Measuring value	area activity (calibrated against Am-241 and Sr-90) photon dose equivalent rate $\mu\text{Sv/h}$
Indication range	range 1: 0.01 $\mu\text{Sv/h}$ to 19.99 $\mu\text{Sv/h}$ range 2: 0.1 $\mu\text{Sv/h}$ to 199.9 $\mu\text{Sv/h}$
Measuring range	alpha: (0.1 bis 199.9) $\text{Bq/cm}^2 \cdot k_a$ ( $k_a = 6$ ) beta: (0.1 bis 199.9) $\text{Bq/cm}^2 \cdot k_b$ ( $k_b = 2$ ) gamma: (0.1 bis 199.9) $\mu\text{Sv/h}$
Intrinsic error	alpha: < 25% (referred to Co-60) beta: < 25% (referred to Sr-90) gamma: < 25% (referred to Am-241)
Radiation detector	End window Geiger-Muller tube (area mass density < 2 $\text{mg/cm}^2$ )
Energy range	beta: > 35 KeV gamma: up to 2 MeV
Power supply	1.5 V (battery or accumulator, type C)
Operating lifetime	typically from 300 h with NiCd-accumulator to 1000 h with alkaline cell
Weight	$\leq 250$ g
Dimensions (L x W x H)	145 mm x 80 mm x 40 mm
Colour	black RAL 8022
Readout	digital on LCD acoustic visual with LED
Operating temperature	from 0°C to +50°C
Relative humidity	$\leq 90$ % (30 °C)
Mechanical strength	nach DIN IEC 68, Eb 6 - 150 - 1000/3

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