

# RadEye AB 100



Beta Contamination	★★★
Alpha Contamination	★★★
Gamma Source Detection	★

The RadEye AB100 is a modern contamination meter for surface contamination measurements with excellent alpha/beta discrimination. The user can select the proper calibration factor within a list of isotopes (e.g. Bq, Bq/cm<sup>2</sup>, dpm). The instrument is part of the growing RadEye family of high-end stand-alone meters, which are designed to meet the most demanding user expectations.

## Features of RadEye AB100

- Light Weight (900 g), excellent grip with or without gloves
- Rugged and compact design
- Low cost of ownership with > 1,000 h operation time using 2 C batteries (rechargeable NiMH-cells can be used)
- Menu-driven user interface resulting in low training cost and immediate familiarity
- Huge internal data memory for both scaler type and continuous data recording
- Bright backlit LCD display – plain text messages – different languages can be selected
- Easy adaptation to different tasks by supervisor configuration, calibration, selection of measuring units
- Versatile operation modes:-
  - ✓ Scaler / Timer with preset count and preset time for sample measurements;
  - ✓ Continuous ratemeter mode for frisker operation;
  - ✓ Alpha, Beta and Alpha + Beta modes;
  - ✓ Gross or net counting•Audible indication: single pulse for alpha, chirper mode for beta - proportional to count rate
- Earphone output for operation in a loud environment
- One hot and four advanced buttons - easy to use, no PC required



Simultaneous measurement - alpha/beta/gamma



Alpha alarm is indicated



Scaler mode

<b>Main Applications</b>	Civil Defence, Fire Brigades, Hospitals, Nuclear Industry, Pharmaceutical Industry	
<b>Efficiency (per surface emission)</b>	Am-241:	36 % ( $\alpha$ )
	Co-60 :	23 % ( $\beta$ )
	Sr/Y-90:	49 % ( $\beta$ )
<b>Gamma response (Cs-137)</b>	approx. 40 s <sup>-1</sup> /( $\mu$ Sv/h)	0.4 s <sup>-1</sup> /( $\mu$ R/h)
<b>Window thickness/Active area</b>	Thickness: 0.87 mg/cm <sup>2</sup> aluminized plastic film Sensitive area of 69 x 145 mm [2.71" x 5.71"]; Open area of approx. 85 %	
<b>Dimensions / Weight</b>	355 mm x 100 mm x 180 mm [14" x 4" x 7.1"] / approx. 0.9 kg [2 lb]	