

PAB-2

α and β low background counter

- The low background counter PAB, allows measurement of α and β surface contaminations. Smear tests of diameter 51 mm are controlled and sorted according to the radiological thresholds and uncertainty preset. In the absence of smear test, the gamma background is measured. The measuring time is then automatically adjusted according to this background value and with respect to the detection limit.

PAB is used for testing contamination on transport casks, parcels, luggages, materials, etc leaving controlled area or nuclear site.



➤ Technical characteristics

Detector:

- Double sealed Ar-CO₂ detector 25,68 cm² sensitive to α and β radiation
- Lead shielding

Background in normal environment (100 nSv/h):

- Background noise $\alpha \leq 0,002$ c/s
- Background noise $\beta \leq 0,3$ c/s

Efficiency:

- α (Pu239) : 0,35 c/s/ α /s/2 π
- β (Co 60): 0,45 c/s/ β /s/2 π

Processing unit:

- Electronics based on industrial microprocessor
- Display on large LCD screen
- Anticoincidence algorithm
- Maintenance mode allowing quality control of the double detector

Mechanics: Manual planchet with double drawer

Weight: 27 kg

Dimensions: 425 x 240 x 360 mm.

RS232 output to PC or printer.

- Planchet with double smear test drawer
- Very low detection limit (curves can be given according to measuring time, smear collecting efficiency, nucleides)
- Alpha and beta discrimination
- Autonomous and easy to use
- Monitoring of gamma background and real time compensation
- Non volatile memory (max 3840)
- Seal Argon-CO₂ detector. No gas filling
- Adjustable thresholds (Bq/cm²)
- Adjustable smear collecting efficiency
- Audible alarm
- Password protected access