COMO 170

PORTABLE CONTAMINATION AND RADIATION MONITOR

FOR DETECTION OF α, β AND γ SURFACE CONTAMINATION

- ALPHA-, BETA-, AND GAMMA SENSITIVITY, SELECTIVE DETECTION

- ONE DETECTOR, LARGE AREA

- EFFICIENT FOR VARIOUS NUCLIDES

- SCINTILLATION PROBE

- NO COUNTING GAS

CoMo 170 is a portable contamination monitor for α, β and γ surface contamination. The detected events are counted over time and displayed digitally in c/s, Bq or Bq/cm^2. Measurement results can be stored and transferred by RS 232 C.

ELYSIA RAYTEST

CoMo 170 is using 2 scintillator materials: ZnS for detection of alpha-radiation, plastic scintillator foil for detection of beta- and gamma-radiation. The large area detector window is permeable for low energy alpha radiation like ^{238}U, beta radiation like ^{14}C. The thin window can be replaced easily by the user and measurements can be continued without delay. The light flashes generated by the alpha or beta/gamma radiation can be separated by pulse analysis. Nuclide specific sensitivity is calculated and alarm values are preprogrammed.

Efficiency for various nuclides

° ^{14}C : 14%

° ^{32}P : 25%

° ^{38}Cl : 42%

° ^{18}F : 18%

Etc.

Technical specifications

Detector type	thin layer plastic scintillator with ZnS coating
Detector size	170 cm^2
Background	alpha 0.1 c/s - beta 15-25 c/s
Background subtraction	adjustable background measurement time
Measurements electr.	μ-controller supported electronics
Keyboard	foil keyboard 5 function keys
Alarm	acoustic alarm, separately adjustable for each nuclide
Result display	25 nuclides, preset calibration factors, user specific nuclides may be added, integrated auto-calibration
Measurement time	continuous, for stationary application, adjustable in seconds
Display	large area graphical LCD display, 128 x 64 pixels with adjustable illumination duration
Power supply	2 AA Mignon or rechargeable batteries (can be charged by charge unit in stationary mode via wall station with inductive charge conservation)
Operating conditions	-10 to +40 °C, no condensation
Interface	RS232C

Physical specifications

Dimensions	W280 × D125 × H135mm (W9,19" x D4,01" x H4,43")
Weight	0,75 kg (1,65 lbs)