

HAND-, FOOT- & CLOTHES MONITOR

 α , β and γ control area for pet synthesis, radionuclide and quality control laboratories

- ALPHA-, BETA-, AND GAMMA SENSITIVE, SELECTIVE DETECTION
- 2 HAND AND 2 FOOT DETECTORS,
 1 BODY DETECTOR
- SCINTILLATION PROBE
- NO COUNTING GAS
- NUCLIDE SPECIFIC DISPLAY AND ALARM



HFC is a hand-, foot- and clothes-monitor for the detection of α , β and γ contamination. The detected events are counted over time and displayed digitally in c/s, Bq or Bq/cm². Measurement results can be stored and transferred by RS 232 C.



HFC 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 ²⁴¹Am, beta radiation like ¹⁴C. 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 preprogramed.

Efficiency for various nuclides

¹⁴C:8%
 ⁶⁰Co:23%
 ^{99m}Tc:5%
 ²⁴¹Am:25%

Etc.



Detector display

Technical specifications

Detector type thin layer plastic scintillator with ZnS coating

Detector size hand $375 \text{ cm} 2 (15 \times 25 \text{ cm}) - \text{foot } 450 \text{ cm}^2 (15 \times 30 \text{ cm})$

Background alpha 0.1 c/s - beta 15-25 c/s

Background subtraction adjustable background measurement time

Measurements electr. integrated PC 104

Keyboard foil keyboard

Alarm separately adjustable for each detector

Result display selectable in c/s or nuclide related in Bq/cm²

Measurement time adjustable in seconds

Display large area graphical color LC display, 10,4"

Power supply 230 V, 50 Hz

Interface RS232C

Physical specifications

Dimensions: W1160 × D830 × H700 mm (W38,06" × D27,23" × H22,97")

Weight: 45 kg (99,2 lbs)



