

# Hand-Foot -Clothing Monitor

with large-area, thin-layer plastic scintillation.



Monitor to check personnel before leaving a radiation controlled area.

## **Characteristics**

- modern detector technology based on thin-layer plastic scintillation detectors
  - no gas-filled detectors therefore considerable reduction of operating costs
    no gas supply required
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- suitable for  $\alpha$  and  $\beta/\gamma$  contamination measurement
- electronics based on industrial grade PC
- operator-friendly user interface, large-area colour-LCD display for indication of measurement values
- nuclide selection menu, user-related nuclide pre-selection possible
- hand probe detachable therefore no additional frisker probe required
- integrated calibration software for quality check
- ergonomic housing design
- network-compatible
- link of HFC-monitors to central database with parameter setting features

## **Technical Data**

Detector type: large-area, thin-layer plastic scintillation detectors (PSD) with ZnS-coating for a and b/g measurements with integrated photomultiplier and detector electronics For typical sensitivities see chart.

### Measuring channels:

- hands 2 PS-detectors (as desired also with 4 hand detectors)
  1 detector per hand, Start of measurement through light barriers
- feet 2 PS-detectors, 1 detector per foot
- body right hand detector detachable for body measurement

### Background

 subtraction: with adjustable BG-measuring time,σ-threshold for new BG-measurement Measuring

#### System.

- electronics: integrated industrial grade computer based on PC 104
- Keyboard: foil keyboard
- Alarm: separately adjustable for each detector

### Measuring value

- display: selectable in cps or nuclide-related in Bq or Bq/cm<sup>2</sup>
- Measuring time: adjustable in s
- Display: large-area, graphic colour LCD display 10.4"
- Power requirement: 110 240 V, 50 60 Hz, 60 VA
- Dimensions: approx. 1160 mm x 830 mm x 700 mm (h x w x d)
- Weight: approx. 45 kg
  - Housing: ergonomically shaped plastic/stainless steel housing
- Interfaces: serial interface RS 232
  - parallel printer interface
  - external keyboard
  - floppy disk drive 3.5"
  - network connection (option)
  - relay output for alarms

Transponder system for automatic identification of personnel, containing identification system and software expansion and transponder chip (option).











Fig. 3: Transponder for person related measurement