

# SHFM

## $\alpha$ and $\beta$ hand and foot Contamination monitor

- SHFM is a hand and foot contamination monitor designed for simultaneous measurement of  $\alpha$  and  $\beta/\gamma$  contamination.
- Technical characteristics**

### Detector type:

Large-area thin layer plastic scintillation detectors with ZnS coating for simultaneous  $\alpha$  and  $\beta/\gamma$  measurement with integrated photomultiplier and detector electronics:

- Hands: 2 detectors with 375 cm<sup>2</sup> (150 x 250 mm<sup>2</sup>) per handbox. Start of measurement through light barrier. Right detector detachable for cloth monitoring,
- Feet: 2 detectors with 450 cm<sup>2</sup> each (150 x 300 mm<sup>2</sup>)

**Efficiency (2 pi):** 30% for Cs-137; 13% for <sup>241</sup>Am and 12% for Pu-238

**Measuring electronics:** integrated industrial grade computer based on PC 104

**Keyboard :** silicon keyboard

**Alarm:** adjustable separately for each detector

**Display of measurement value :** selectable in cps or nuclide-related in Bq/cm<sup>2</sup>

**Measuring time:** adjustable in s

**Display:** large-area, graphic colour LC-display 10,4 "

**Power requirement:** 230 V/50Hz or 110V/60Hz

**Dimensions and weight :** 1160 x 830 x 700 mm<sup>3</sup> (h x w x d) - 45 kg

**Housing :** Ergonomically shaped housing out of stainless steel and plastic

**Interfaces :**

- serial interface RS 232
- parallel printer interface
- external keyboard
- floppy disk drive 3,5 "

**Options :**

- 4 hand detectors (SHFM 4)
- Network connection RJ 45, e.g. for NOVELL network (option)
- Narrow version (700 mm wide) and extra narrow version (430 mm wide),
- Software for connection to central computer/database



- Thin plastic scintillation: no gas filling. Considerable reduction of operating costs
- Suitable for simultaneous, selective  $\alpha$  and  $\beta/\gamma$ -contamination measurement
- $\beta/\gamma$  background surveillance and compensation
- Operator friendly user interface, large-area colour-LC-display
- Nuclide selection menu
- Hand probe detachable – no additional frisker probe required
- Integrated calibration routine

