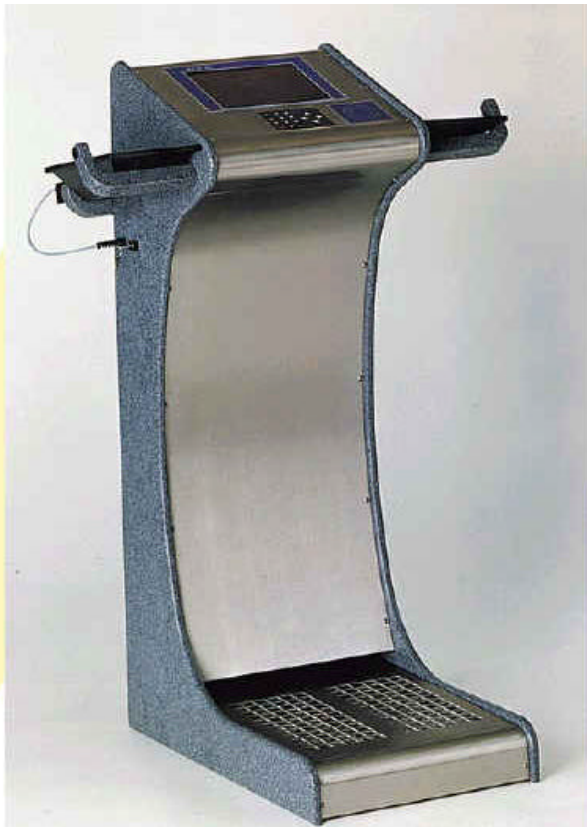




HFC-Monitor

Hand-Foot-Clothing Contamination Monitor with large-area, thin-layer plastic scintillation detectors



System Characteristics:

Detector technology based on thin-layer plastic scintillation detectors.

No gas-filled detectors – therefore considerable reduction of operating costs.

No gas supply required.

Suitable for simultaneous, selective α and β/γ -contamination measurement

Measuring electronics based on industrial grade PC.

Operator friendly user interface, large-area colour-LC-display for indication of measurement values.

Nuclide selection menu, user related nuclide pre-selection possible
User related contamination measurement through menu selection or through transponder system.
Hand probe detachable – therefore no additional frisker probe required
Integrated calibration software for quality control
Ergonomic monitor housing

Technical Data:

Detector type: large-area, thin-layer plastic scintillation detectors (PSD) with ZnS-coating for simultaneous selective α and $\beta/\bar{\alpha}$ measurement with integrated photo multiplier and detector electronics.

For typical detector sensitivity see chart.

Measuring channels:

- Hands 2 PS-detectors
1 detector with 375 cm² (150 x 250 mm²) per handbox
Start of measurement through light barrier
- Feet 2 PS-detectors, right/left foot with 450 cm² each (150 x 300 mm²)
- Body right hand probe detachable for body measurement

Background subtraction with adjustable background measurement time

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/cm²

Measuring time: adjustable in s

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

Power requirement: 230 V, 50 Hz

Dimensions: approx. 1160 mm x 830 mm x 700 mm (h x w x d)

Weight: approx. 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"
- network connection RJ 45, e.g. for NOVELL network (option)

Typical sensitivity:

14C	8 %
36Cl	40 %
60Co	23 %
90Sr/90Y	49 %
131 I	23 %
125I	13 %
99mTc	5 %
241Am	25 %

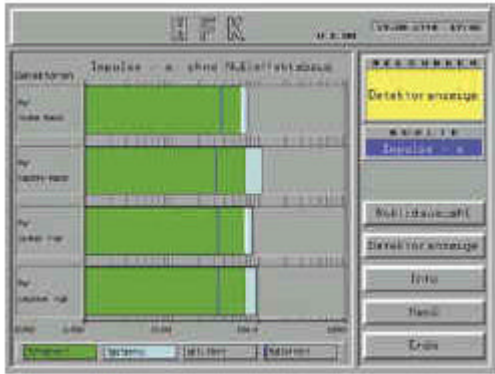


Fig. 1: Detector indication
Impulse rates of all detectors plastic scintillation detector
for function control



Fig. 2: Large-area, thin-layer

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