



VF NUCLEAR



NUCLEAR POWER PLANTS



WASTE MANAGEMENT



CALIBRATION LABORATORIES



RESEARCH CENTRES



INDUSTRY & MANUFACTURING



NUCLEAR MEDICINE

Portex-2

PERSONAL PORTAL MONITOR



MAIN ADVANTAGES

- Gasless plastic scintillation detectors
- High sensitivity
- Advanced measurement time statistical algorithms for high throughput
- All results and events stored in an internal database
- User friendly graphic interface
- Easy access to all components for easy maintenance

PURPOSE

The Portex-2 is a highly sensitive personnel portal monitor to check for contamination by gamma emitting radionuclides on personnel passing through it. For example it can be used in nuclear power plants, radiochemical plants, research institutes etc.

An array of six scintillation detectors is used to provide good detection geometry and high sensitivity. Detectors are located in both sides of the portal as standard, optionally also at the top and bottom part to monitor the head and feet respectively.

Measurement starts when a person enters the monitor. The user is informed of the progress and results of the measurement by voice and visual instructions. If the measured values are higher than the preset threshold values, both the visual and audible alarms are activated.

When no one is passing through the monitor, the background level is continuously measured and the stored value is updated.

SPECIFICATION

Detector type	plastic scintillator
Number of detectors	6 - 8
MDA (¹³⁷ Cs)	< 3700 Bq
Dimension	
· without ramp (W × H × D)	980 × 2200 × 715 mm
· with ramp (W × H × D)	980 × 2236 × 1669 mm
Pb shielding	
· integrated	15 mm (optional 25 mm)
· external	0 mm (optional 25 mm)
Power supply	100 – 240 V, 50 – 60 HZ
Interface	USB, Ethernet
Units	cps, cpm, dpm, %, ratio, Bq, Ci, Bq/cm ² , Ci/cm ²

PERSONAL PORTAL MONITOR

RELATED PRODUCTS

ExitScan-2	Personnel Exit Scan
HF	Hand-Foot Contamination Monitor
HM-4	Hand Contamination Monitor
FCM-11	Frisking Contamination Monitor
PAM-170	Portable Activity Meters

OPTIONAL FEATURES¹

Head detector
Foot detector
Personal ID card reader
Integrated lead shielding of 15 mm or 25 mm
Additional external shielding of side walls 25 mm
Battery backup power supply
Entry ramps
Optical-acoustic signalling unit

¹ Optional features must be specified before ordering