









MEDICINE

NUCLEAR POWER PLANTS

WASTE MANAGEMENT

CALIBRATION LABORATORIES

VID

RESEARCH CENTRES

& MANUFACTURING

INDUSTRY

FCM-11 FRISKING **CONTAMINATION MONITOR**

MAIN ADVANTAGES

- Quick and easy detection of contamination
- Easy replacement of SFP-100 smart frisking probes •
- Possibility to connect frisking probes from other . manufacturers
- User selection of radionuclides for readout of activity
- Robust and durable instrument
- User-friendly interface, simple operation •
- Easy maintenance and service

PURPOSE

The FCM-11 contamination monitor consists of a base unit with a user display, a handheld probe with an active detection area of 100 cm² and the connecting cable.

To measure contamination, the probe is removed from the cradle and moved over the surface being checked. The probe is suitable for checking the contamination of such as persons, clothing, tools or materials.

The measurements are shown on the FCM-11 display using two bar graphs (one for the alpha and one for the beta channel). The level of contamination is also indicated by audible clicks. A different sound is used for alpha and beta counts.

If the alarm threshold for contamination is exceeded, the red light is lit, and an audible alarm is triggered. Otherwise, for no alarm the green light is on.

The SFP-100 detector has LEDs installed on its handle, which also indicate the status of the contamination. Green for clean, and red for contaminated, to help with local identification of hot spots.

The FCM-11 allows selection of the appropriate radionuclide, if it is known, for the display of activity on the display.

The FCM-11 allows communication with host systems and control of external technologies (e.g. door lock) via relay outputs.

SPECIFICATION

Detector type	scintillator
Active area	100 cm ²
Dimensions (W x H x D)	374 × 212 × 109 mm
Weight	5 kg
Power supply	115 -230 V AC, 50 Hz
Communication interface	Ethernet
Temperature range	from -25 to +45 °C
Units	cpm, dpm, Bq, Bq/cm ²

DESCRIPTION

Name	1. channel	2. channel	
SFP-100A	alpha	-	
SFP-100B	alpha + beta	-	
SFP-100C	alpha	beta	
SFP-100D	alpha + beta + gamma	-	
SFP-100E	alpha	beta + gamma	

FCM-11 FRISKING CONTAMINATION MONITOR

RELATED PRODUCTS

HF	Hand-Foot Contamination M with 6 detectors	Monitor
HF-4	Hand-Foot Contamination M with 4 detector	Monitor
HM-4	Hand Contamination Monitor	
ExitScan-2	Personnel Exit Monitor	

OPTIONAL ACCESSORIES

51-A-0000259	Service cable USB A – Fischer 5 pin for the connection of FCM-11 with SFP-100
51-A-0000242	Service cable USB A – Fischer 6 pin for the direct connection of SFP-100
50-A-0017018	Mounting kit for fast and easy mounting and dismounting of the monitor on the wall
1-0216-00230	Spiral connecting cable 0.3 m long for the connection of the base unit and the handheld probe instead of the standard spiral cable 0.5 m long.



SFP-100 Smart Frisking Probe

EXAMPLE OF RADIOMETRIC PARAMETERS

Model	Channel	Radionuclide	Efficiency [%]	Decision Threshold [Bq/cm²]
SFP-100A	α	²⁴¹ Am	42	0,05
SFP-100B	α	²⁴¹ Am	42	0,13
	β	³⁶ Cl	46	0,09
SFP-100C	α	²⁴¹ Am	43	0,04
	β	³⁶ Cl	33	0,12
SFP-100D	α	²⁴¹ Am	39	0,28
	β	³⁶ Cl	47	0,17
	γ	¹³⁷ Cs	42	0,17
SFP-100E	α	²⁴¹ Am	43	0,04
	β	³⁶ Cl	42	0,19
	γ	¹³⁷ Cs	34	0,21



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Specification subject to change without prior written notice.