



VF NUCLEAR



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POWER PLANTS



RESEARCH
CENTRES

DCM-300

DOCUMENTATION CONTAMINATION MONITOR



MAIN ADVANTAGES

- Optimized detection of document contamination
- User-friendly interface
- Automatic measurement process
- Bidirectional operation mode

PURPOSE

The DCM-300 Documentation Contamination Monitors are available in a range of models capable of detecting contamination with alpha, beta and gamma emitting radionuclides. Typical applications are at the boundaries of radiation-controlled areas in nuclear facilities.

The monitor has a pull-out tray into which the measured documents (or small items) are loaded. Documents can be loaded into the monitor from either side. The monitor can be installed in the wall at the boundary of the radiation controlled area. When the monitor door have been closed, the measurement process starts automatically. The inserted object is independently measured by detectors on both the top and bottom sides.

A digital display and indicating lights on the front panel show the status of the unit and the contamination of documents measured by detectors on both sides.

MODELS

Name	1st channel	2nd channel
DCM-300F	beta + gamma	-
DCM-300G	gamma	-
DCM-300C	beta	alpha

DESCRIPTION

Detector type	plastic scintillator
Active area	
DCM-300F	2 x 704 cm ²
DCM-300G	2 x 875 cm ²
DCM-300C	2 x 572 cm ²
Dimensions (H x W x D)	
DCM-300F/G	372 x 544 x 335 mm
DCM-300C	323 x 510 x 300 mm
Weight	
DCM-300F/G	approx. 90 kg
DCM-300C	approx. 48 kg
Power supply	230 V AC / 50 Hz
Operational temperature	+5 to +50 °C
Operational humidity	max. 80% noncond.
Units	% of the alarm level, , cps, cpm, Bq, dpm, Ci, Bq/cm ² , Ci/cm ² , 1/s, 1/(cm ² .s)

SELECTED RADIOMETRIC PARAMETERS

Model	Radionuclide	MDA [Bq]
DCM-300F	¹³⁷ Cs	60
	⁹⁰ Sr + ⁹⁰ Y	90
DCM-300G	¹³⁷ Cs	120
DCM-300C	²⁴¹ Am	8
	¹³⁷ Cl	38
	¹³⁷ Cs	43
	⁶⁰ Co	80
	⁹⁰ Sr/ ⁹⁰ Y	52

DCM-300

DOCUMENT CONTAMINATION MONITOR

OPTIONAL ACCESSORIES

Ionizing radiation sources for operational checks

Fixtures for correct placing of ionizing radiation sources

Protective foil for bottom detectors of DCM-300C

RELATED PRODUCTS

SIM series	Small Items Monitors
LCM-300	Laundry Contamination Monitor
MCM-300	Tools and Materials Contamination Monitor
SFP-100	Smart Frisking Probe
FCM-11	Frisking Contamination Monitor



DCM-300C with pull-out tray for the measured items



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Specification subject to change without prior written notice.

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