



VF NUCLEAR



NUCLEAR POWER PLANTS



RESEARCH CENTRES



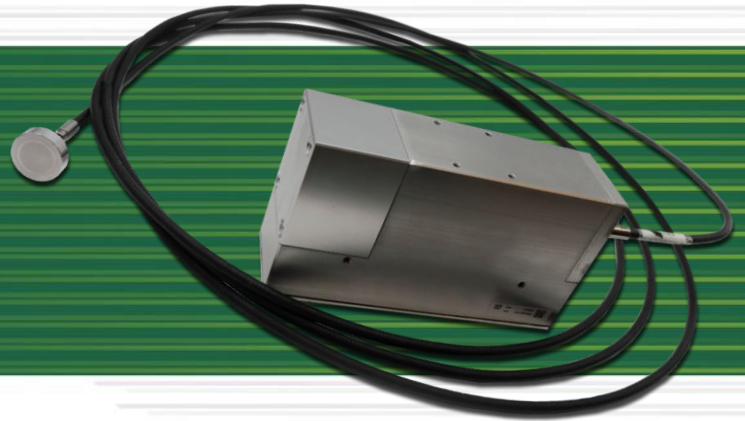
INDUSTRY & MANUFACTURING



NUCLEAR MEDICINE

## HRGD-50

# HIGH DOSE RATE DETECTOR



### MAIN ADVANTAGES

- Measurement of gamma dose rate in harsh operating conditions (high dose rates, EMC interference)
- Compact dimensions, can be used in confined spaces
- Separate detector and electronics connected by an optical cable with high radiation resistance

### PURPOSE

High dose rate detectors HRGD-50 are intended for detection of ionizing radiation in spaces where high dose rates and/or a strong electromagnetic field are expected. Its use in research facilities with particle accelerators is particularly advantageous.

The HRGD-50 meter consists of an ionizing radiation detector, an evaluation unit and an optical fibre connecting cable. It can be fitted with NaI(Tl), CeBr, YAP(Ce) crystals or scintillation detectors. Based on the level of radiation and other circumstances, the appropriate detector material and its size is selected.



The connection of the fibre to the detector and evaluation unit is ensured by means of a special threaded optical connector. The length of the fibre optic cable can be adjusted to the specific application.

### SPECIFICATION

Detector type	standard	scintillation
	optional	NaI(Tl) CeBr, YAP(Ce), etc.
Typical measuring range	1 mGy/h to 100 Gy/h (according to the used detector)	
Radiation resistance of optical fibre	10 kGy	
Fibre optic cable length	1 to 30 m	
Operating temperature	5 to +45 °C	
Relative humidity	max. 90%, non-condensing	



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Specification subject to change without prior written notice.

VF2311240430 / 01 / 2023-12-20