



Gamma Radiation Detectors

for integration into security systems and special vehicles

MS-GRD is a new generation of radiological detectors intended for use as emergency radiological detectors in case of accidents at potentially hazardous facilities. The detectors are designed to be built into security systems and inside special vehicles as an element of a collective protection system.

MS-GRD 3.1 includes one gamma radiation detector based on a Geiger–Müller tube. MS-GRD 3.2 includes two Geiger–Müller detectors: one placed inside the facility and the other monitoring background radiation outside. MS-GRD 3.3 combines a Geiger–Müller tube with a highly sensitive CsI(Tl) scintillation detector.



Specifications

CsI(Tl) detector

Sensitivity, gamma radiation (^{137}Cs , ^{241}Am)	$100 \text{ s}^{-1}/(\mu\text{Sv/h})$
Energy range	0.06 – 3.0 MeV
Dose equivalent rate (DER) measurement range	0.1 $\mu\text{Sv/h}$ – 100 $\mu\text{Sv/h}$
DER measurement accuracy	$\pm 25\%$
Response time	0.25 s
Operating temperature	–30 to +50 °C

Geiger–Müller detector

Dose equivalent (DE) measurement range	0.1 $\mu\text{Sv/h}$ – 9999 mSv
Dose equivalent rate (DER) measurement range	0.1 $\mu\text{Sv/h}$ – 10 Sv/h
DER measurement accuracy	$\pm 25\%$
Energy range	0.06 – 3.0 MeV
Operating temperature	–30 to +50 °C

Common

DC power supply voltage	12 – 24 V
MTBF	6000 h
Warm-up time	not more than 2 min
Interfaces	CAN
Military standard	MIL-STD-810G
Ingress protection	IP65
Indication unit	LCD 1.5", IP65
Alarm	light / sound
Weight	0.5 kg

Specifications are subject to change without notice.

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