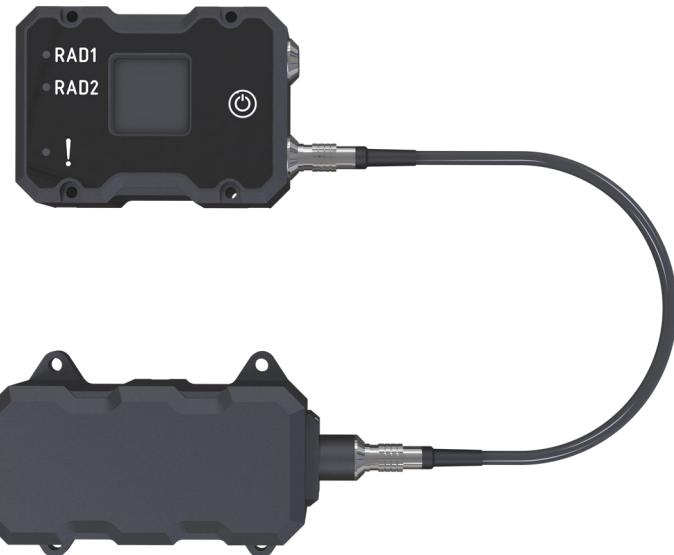




**CBRN
PROTECTION
TCT**



GRD 3.1/3.2/3.3

Gamma radiation detectors

GRD is a new generation of radiological detectors. It is intended for use as an emergency radiological detector in case of accidents at potentially hazardous facilities.

GRD is designed to be built into security systems and inside special vehicles as an element of collective protection system.

GRD 3.1 includes one gamma radiation detector based on Geiger-Muller tube.

GRD 3.2 includes two gamma radiation detectors (Geiger-Muller tube). One to be placed inside the facility and the other to monitor the background radiation outside the facility.

GRD 3.3 includes two gamma radiation detectors. One detector based on Geiger-Mueller tube and the second - highly sensitive scintillator CsI(Tl).

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

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

DC power supply voltage, V	12 - 24
MTBF, h	6000
Warm-up time	not more 2 min
Interfaces	CAN
Military standard	MIL STD 810G
Ingress protection	IP 65
Indication unit	LCD, 1.5"
Ingress protection	IP65
Alarm	Light/sound
Weight, kg	0.5

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