

Recording into BDG2 the following information:

- DER and DE threshold levels values
- command of accumulated DE and DE
- accumulation time resetting
- command sound alarm "On/Off"

Radiation Detectors Set PM1403

BDG2 - GM detector, gamma radiation detector

BDG3 - CsI(Tl) detector, gamma radiation detector

BDN - He-3 detector, neutron radiation detector

BDAB - proportional counter, alpha-beta radiation detector

Application

- Exploration Geology
- Surface Contamination
- Laboratory Equipment

Standards Compliance

BDG2 corresponds to ANSI 42.34, section 9.11 according to their electromagnetic emission level (local state standard of manufacturing country).

Specifications

Detector	Geiger-Muller tube
Dose equivalent rate (DER) measurement range	from 0.1 $\mu\text{Sv/h}$ to 10.0 Sv/h
DER measurement accuracy	$\pm (20+K/\dot{H})\%$, where \dot{H} – DER value, $\mu\text{Sv/h}$; K – coefficient = 2,0 $\mu\text{Sv/h}$
Dose equivalent (DE) measurement range	from 0.1 $\mu\text{Sv/h}$ to 9999 mSv
DE measurement accuracy	$\pm 10 \%$
Thresholds	0.01 to 9999 mSv (DE thresholds)

Energy range	from 0.03 to 3.0 MeV
Energy response relative to 0.662 MeV:	
within energies range from 30 to 48 keV	minus 40 %
within energies range from 48 keV to 3.0 MeV	$\pm 25 \%$
Data exchange	USB or RS-485 interface (with BDOI or PC)
Power supply	3.6 (minus 0.6; +0.7) V
Ingress protection	IP65
Weight	0.11 kg
Dimensions	162 x 40 mm
Mean time between failures	20000 hours
Mean service lifetime	10 years
Mean recovery time	60 min
Operating temperature	from -20 to +50 °C
Humidity	up to 95 % at 35 °C
Atmospheric pressure	from 84 to 106.7 kPa.