

**PURPOSE**

BDPG-96 is designed to be used as a part of dosimeter-radiometer MKS-08 (with measurement console UIK-05, UIK-05-01 or UIK-06).

It is allowed to make a targeted search for sources of gamma radiation and surveying local areas of territories contaminated with radioactive substances.



**FEATURES**

- wide measurement range;
- high sensitivity and wide energy range;
- operation in harsh weather conditions.

**SPECIFICATIONS**

Type of registered radiation	ADER $\gamma$ , FD $\gamma$
Energy range of registered gamma particles	50 keV - 3 MeV
Measurement range of ambient dose equivalent rate $H^*(10)$ of gamma-radiation	0,01 - 100 $\mu\text{Sv/h}$
Measurement range of gamma particles flux density	1 - 8000 $\text{s}^{-1} \cdot \text{cm}^{-2}$
Limits of tolerable intrinsic relative error, %	$\pm 15$
Typical sensitivity, no less%	400 $\text{s}^{-1} \cdot \mu\text{Sv}^{-1} \cdot \text{h}$
Type of detector	Monocrystal $\text{NaI(Tl)}$
Active area of detector, $\text{cm}^2$	$\varnothing 25 \times 40$
Continuous operation time, no less	$\geq 24$ h
Overall dimensions, mm	480×191×50
Weight, kg	1,0
<i>Note: where Ax – numerical value measured value</i>	

**ENVIRONMENT**

- operating temperature range: from minus 20 °C to +50°C;
- relative humidity up to 95% at +35°C;
- atmospheric pressure from 84 to 106,7 kPa;
- protection class – IP 67;
- housing easy to decontaminate

**RELIABILITY AND GUARANTEES**

- working resource before the complete overhaul is 10000 hours for 10 years of operation;
- overhaul period is 5000 hours upon condition of average amount of repairs for the service period;
- warranty period of operation is 18 months from the moment of putting into operation or if the guarantee period of storage is expired.
- guarantee period of storage is 6 months from the sale date