

PURPOSE

BDVG-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 of local zones and areas, exposed to radioactive contamination, as well as shielded sources of gamma radiation.



FEATURES

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

SPECIFICATIONS

Type of registered radiation	ADER γ , FD γ
Energy range of registered gamma particles	50 keV - 3 MeV
Measurement range of ambient dose equivalent rate $H^*(10)$ of gamma-radiation	0,01 - 30 $\mu\text{Sv/h}$
Measurement range of gamma particles flux density	1 - 2400 $\text{s}^{-1}\cdot\text{cm}^{-2}$
Limits of tolerable intrinsic relative error, %	$\pm (15 + 2/Ax)$
Typical sensitivity, no less%	2500 $\text{s}^{-1}\cdot\mu\text{Sv}^{-1}\cdot\text{h}$
Type of detector	Monocrystal NaI(Tl)
Active area of detector, cm^2	$\varnothing 63 \times 63$
Continuous operation time, no less	≥ 24 h
Overall dimensions, mm	$\varnothing 90 \times 290$
Weight, kg	3,0
<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