GAMMA RADIATION DETECTOR BDKG-96

PURPOSE

BDKG-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 monitoring of gamma-ray logging of wells and boreholes during geological exploration.

FEATURES

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

SPECIFICATIONS

Type of registered radiation	Exposure dose rate γ Flux γ
Energy range of registered gamma particles	50 keV - 3 MeV
Measurement range of gamma exposure dose rate	1 - $1 \cdot 10^4$ μR/h
Measurement range of gamma flux	4 - $4 \cdot 10^4$ s^{-1}
Limits of tolerable intrinsic relative error, %	± 15
Typical sensitivity, no less%	1,5 $s^{-1} \cdot \mu R^{-1} \cdot h$
Type of detector	Monocrystal *NaI(Tl)*
Active area of detector, cm^2	Ø 18 × 30
Continuous operation time, no less	≥24 h
Overall dimensions, mm	ø38 × 400
Weight, kg	2,0
Note: where Ax – numerical value measured value	

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 68;
- 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

«SPE «TETRA» Ltd
52210 Zhovti Vody, Franko 2
Dnipropetrovsk region., Ukraine
Tel: +38 (098) 894-06-06, +38 (050) 145-76-84
e-mail: info@tetra.ua http://www.tetra.ua

TETRA
www.tetra.ua
Devices of radiation and technological control