

X-RAY AND GAMMA RADIATION SMART PROBE BDKG-04 FOR AT2327

Scintillation wide-range X-ray and gamma radiation smart probe to perform environmental and area radiation monitoring of radiation-sensitive rooms and targets.



Features

- Wide-range measuring range of ambient dose equivalent and dose equivalent rate continuous X-ray and gamma radiation
- The smart probe BDKG-04/1 has RS485 interface
- Dust and splash-proof case

Application

- Nuclear industry
- Radiology
- Industry
- Radioisotope and dosimetry laboratories
- Civil defense

Specification

Detector	scintillation plastic with heavy metal admixtures $\varnothing 30 \times 15$ mm
Dose equivalent rate measuring range X-ray and gamma radiation	0.05 μSv - 10 Sv/h
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Intrinsic measurement error	not more than ± 20 %
Energy range	15 keV - 3 MeV
Energy sensitivity response	
15 - 60 keV	± 35 %
60 keV - 3 MeV	± 20 %
Sensitivity on ^{137}Cs	70 cps/ $\mu\text{Sv} \cdot \text{h}^{-1}$

Operating temperature range	- 30 - + 50°C
Relative humidity +35°C	up to 98 %
Protection class	IP64
Radio disturbance CEI/IEC CESP 22:1997	
Electromagnetic compatibility CEI/IEC 61000-4-2:1995 IEC 61000-4-3:1995	
Weight	0.45 kg
Dimensions	ø60x200 mm

The smart probe BDKG-04 may be included in the complete set of alarm dosimeter AT2327 (automated radiation monitoring system) or work independently in real time being connected to the PC.