

X-RAY AND GAMMA RADIATION SMART PROBE BDKG-04

Scintillation wide range X-ray and gamma radiation smart probe to measure ambient dose equivalent and dose equivalent rate continuous X-ray and gamma radiation in energy range 15 keV – 3 MeV up to 10 Sv/h



Features

- X-ray and gamma radiation source search
- The smart probe BDKG-04 has RS232 interface
- Built-in LED stabilization system providing no need to use a reference source
- Dust and splash-proof case

Application

- X-ray diagnostics
- Nuclear medicine
- Radiology
- X-ray and NDT
- Radiography
- Customs x-ray equipment
- Radiation emergency
- Radiation monitoring
- Nuclear industry
- Acceleration equipment
- Scientific research

Specification

Detector	scintillation plastic with heavy metal admixtures ø30x15 mm
Dose equivalent rate measuring range X-ray and gamma radiation	0.05 µSv - 10 Sv/h
Dose equivalent measuring range X-ray	0.05 µSv - 10 Sv

and gamma radiation

Intrinsic measurement error	not more than $\pm 20\%$
Energy range	15 keV - 3 MeV
Energy sensitivity response	
15 - 60 keV	$\pm 35\%$
60 keV - 3 MeV	$\pm 20\%$
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	$\varnothing 60 \times 200$ mm

The smart probe BDKG-04 may be include in to complete set of radiation monitor AT1117M or work independently in real terms being connected to the PC.