

HD-2007

γ 定向辐射仪
 γ Directional Radiometer



应用领域

铀矿床、坑道、地表揭露工程中 γ 辐射取样和编录，亦可用于要求测定特定方向 γ 辐射的其它场所。

符合检定规程JJG(军工) 41-2014《辐射编录仪检定规程》要求。

Application Fields

Suitable for γ radiation sampling and logging in uranium deposits, tunnels and exposed surface engineering, or used in other occasions that need to measure γ radiation from specific directions.

The instrument is calibrated according to the requirements of JJG 41-2014 *Verification regulation for instrument of radiation documentation*.



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仪器特点

- 单光电倍增管双晶体闪烁探头结构，定向测定 γ 辐射强度
- 微机控制数字化电路，测量精度高
- 测量结果数字和数字率表同时显示，报警阈值可设定，音响和显示双报警功能
- 体积小、重量轻，锂电池和干电池两用

技术指标

1. 测量范围：本底 $\sim 4\%eU$ (本底 ~ 350000 nGy/h)
2. 灵敏度： ≥ 20 s⁻¹/(0.01%eU)
3. 非线性： $\leq 5\%$
4. 重复性：相对标准偏差 $\leq 5\%$
5. 灵敏张角： $110^\circ \pm 5^\circ$
6. 定向能力： $\geq 99\%$
7. 干扰辐射对被测辐射测量值的影响限值： $\pm 7\%$
8. 使用环境
 温度： $(-10 \sim +50)^\circ C$
 相对湿度： $\leq 95\%$ (40°C)
9. 准确度：最大允许误差 $\pm 10\%$
10. 数据存储
 100个记录页，6490组测量数据，标准USB接口
11. 电源：7Ah Li充电电池，功耗： ≤ 600 mW
12. 外形尺寸和重量
 (180×95×145) mm 2.2 kg

仪器认证

核工业放射性勘查计量站检定并出具检定证书

Instrument Characteristics

- Structure of single photomultiplier tube and double crystal scintillation probe, measure γ radiation intensity orientated
- Microcomputer-controlled digital circuit, high measuring accuracy
- Digital and digital table simultaneous display the measurement results, alarm threshold can be set, sound and display dual-alarm functions
- Small size, light weight, lithium batteries and dry batteries dual-use

Technical Index

1. Measuring Range: Background $- 4\%eU$
(Background $- 350000$ nGy/h)
2. Sensitivity: ≥ 20 s⁻¹/(0.01%eU)
3. Nonlinear: $\leq 5\%$
4. Repeatability: RSD $\leq 5\%$
5. Sensitive Angle: $110^\circ \pm 5^\circ$
6. Directional Ability: $\geq 99\%$
7. Limit of the influence of interference radiation on the measured radiation is $\pm 7\%$.
8. Operating Environment
 Temperature: $(-10 - +50)^\circ C$
 Relative Humidity: $\leq 95\%$ (40°C)
9. Accuracy: MPE $\pm 10\%$
10. Data Storage
 100 recording pages
 6490 sets of measurement data
 Standard USB interface
11. Power
 Use one 7Ah Li rechargeable battery
 Power Consumption: ≤ 600 mW
12. Dimensions and Weight
 (180×95×145) mm 2.2 kg

Instrument Certification

Verified by Radioactive Exploration Measurement Station of Nuclear Industry and issued the verification certificate



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