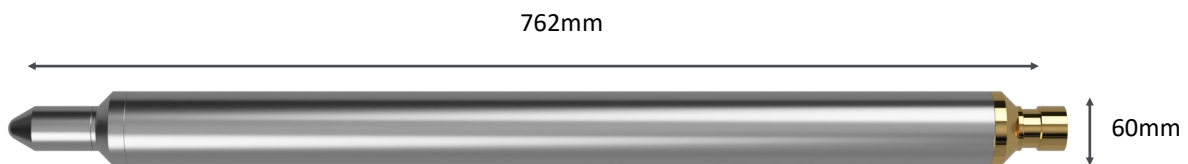




SPECTRAL GAMMA TOOL

Tool overview

The spectral gamma tool measures the gamma energy spectra, which are produced by the decay of Uranium²³⁸, Thorium²³², Potassium⁴⁰, and other man made radioactive isotopes. Each of these isotopes has a spectral signature that enables its presence to be identified. Standard natural gamma tools provide a total count of natural gamma emissions from these isotopes. The spectral gamma tool measures the energy of the gamma emissions and counts the number of gamma emissions associated with each energy level.



Features and benefits

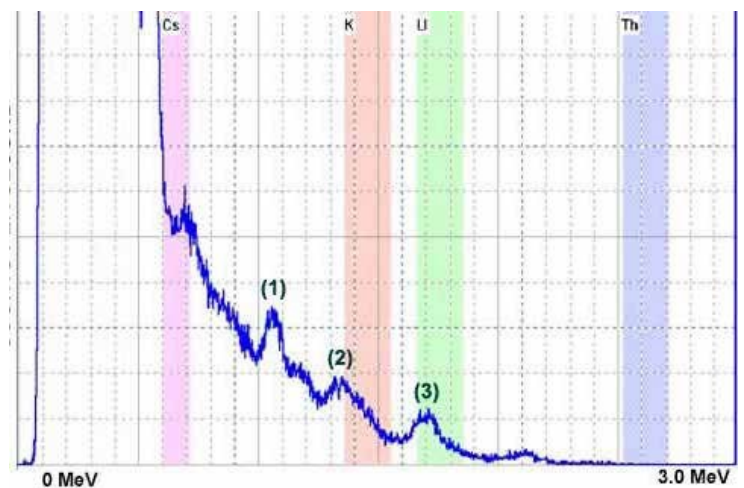
- Measures the gamma spectra in rocks and sediments
- Mainly used to detect decay of Uranium²³⁸, Thorium²³² and Potassium⁴⁰

Logging conditions

2–4m/min in normal mode
Static in spectral mode
Free running

Borehole Conditions

Minimum diameter 75mm
Air or fluid filled
Unlined, or cased



Energy (MeV), measured at a fixed depth

- (A) Bismuth (the decay of uranium and thorium)
- (B) Potassium
- (C) Uranium

Specifications

Size	762mm x 60mm
Weight	6.3kg
Energy range	100keV–2.8MeV
Detector (Nail)	150mm x 38mm
Max. Temperature	80°C
Max. pressure	20MPa

Why European Geophysical Services?

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