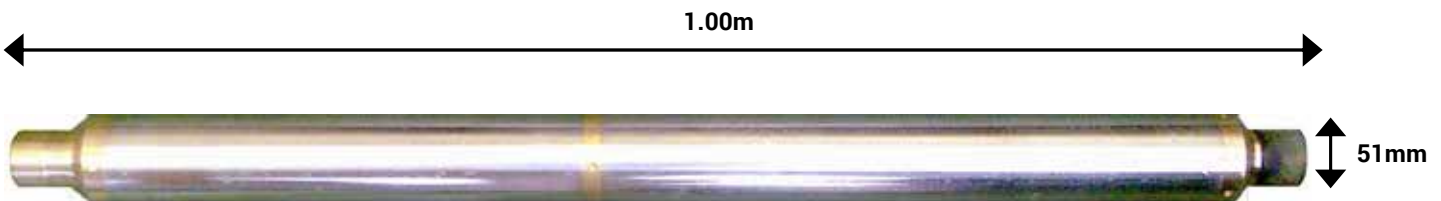




SPECTRAL GAMMA TOOL

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.



Specifications

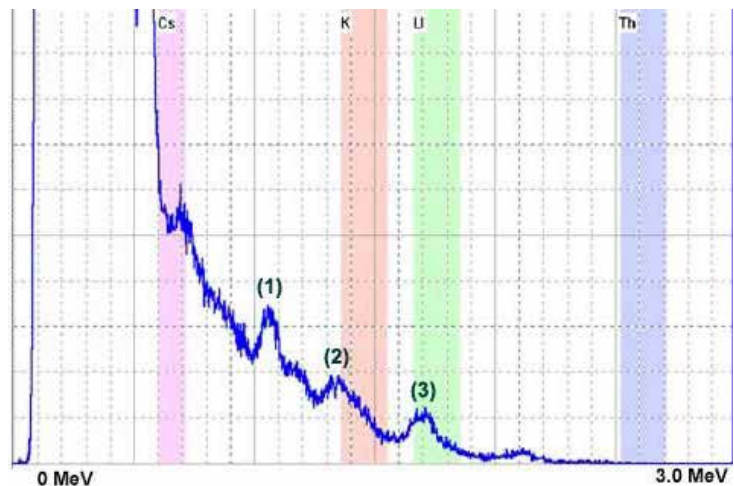
Size:	1.00m x 60mm
Weight:	6.3kg
Energy range	100keV - 2.8MeV
Detector (Nail):	150mm x 38mm
Max. temperature:	80°C
Max. pressure:	20MPa

Borehole Conditions

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

Logging Conditions

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



Energy (MeV), measured at a fixed depth

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