

Gamma ray logger



The NGR200 instrument measures the natural radioactivity generated by all well cores. This device is able to measure the total gross gamma counts, and the concentration of Potassium (%), Uranium (ppm) and Thorium (ppm). The system uses a large shielded scintillation crystal associated to a thermal regulation to reduce the gain drift. A conveyor drives the cores through a long leaded tunnel in order to reduce background gamma radiation and to increase the gamma ray detector sensitivity. The mathematical model enables to measure radioactivity of multi-diameter core samples without re-calibrating the response of the detector.

Benefits:

- Gain drift reduction
- Large range of core diameters (2 inch to 5.5 inch) without specific calibration
- Accurate data acquisition
- Easy to use
- Export facility (Excel file, graphics)
- Variable core logging speed
- Adjustable sampling rate

Specifications:

- Detector: 3" x 3" NaI(Tl) detector with photo-multiplier tube.
- Analyser: USB multi-channel analyser (1024)
- Conveyor: 4 meters long. Suitable for core diameter up to 5.5"
- Temperature detector: regulated
- Power : 110/220 VAC, 50/60 Hz
- Weight: 900kg with lead

Example of gamma report:

