Gamma Sensor

The Geolink Gamma Sensor uses wireline standard measurement technology in a specially ruggedised assembly to provide an accurate gamma log while drilling.

Sensor Module

Scintillation Counter

Gamma Sensor

Description

The Geolink gamma sensor utilises a scintillation counter (NaI Crystal) and a photo-multiplier mounted within a specially designed package which provides protection against the high levels of shock and vibration encountered in the drilling environment. The sensor is mounted in the LWD string as part of the Modular Gamma Ray Assembly (MGRA), capable of transmitting real time formation gamma ray information to surface for correlation and geosteering purposes . It also stores high resolution data downhole for later download at surface. The MGRA is calibrated against the API standard so that the log can be compared directly with wireline gamma logs. Geolink's Navigator software automatically corrects the signal for the attenuating effects of the drill collar and tool housing.

Features

- Calibrated to the API Standard - directly comparable to wireline logs
- AAPI Log Scale - Facilitates correlation and geosteering
- Ruggedised Design - Highly reliable
- UK Built by Geolink - rapid service and turn around
- Geolink Navigator surface software provides user friendly interface
- Slim hole sizes available

Specification

Measurement	Range	Accuracy
Equivalent API Units	3.5" DC 0 - 268 AAPI 4.75" DC 0 - 371 AAPI 6.75" DC 0 - 583 AAPI 8" DC 0 - 822 AAPI 9.5" DC 0 - 1,160 AAPI	+/- 1.5%
Other		
Vertical Resolution	6" /152 mm	
Max. Data Sampling	Every 8 seconds	
Memory Capacity	~240 hours	
Battery Life	~200 hours (Varies according to sensor power level)	
Update Resolution	Real Time Memory	0.5' at 50'/hr - 1.5' at 150'/hr (Avg.) 0.2' at 50'/hr - 0.7' at 150'/hr
Environmental		
Temperature	Operating: 0-150 Deg. C Survival: -20 - 165 Deg. C	
Pressure	15,000 psi (20,000 on request)	
Vibration:	20g RMS 30-300 Hz Random, 30g 50-300 Hz Sine	
Shock	1000g 0.5ms, half sine	

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