

PRODUCT SPEC SHEET

HT SCI-GAMMA™ High Temperature API Natural Gamma Ray

Scientific Drilling's HT Sci-Gamma is a high temperature probe-based, API calibrated sensor that detects naturally occurring gamma radiations from the formation. HT Sci-Gamma can be run with any of SDI's mud pulse MWD system.

HT Sci-Gamma can provide real-time gamma measurements at high temperatures up to 350° F (177° C) allowing clients to collect gamma measurements in wells that have high bottom hole temperatures.

On the Bottom Hole Assembly (BHA), HT Sci-Gamma is placed just above the motor allowing the reservoir to be quickly detected.



DELIVERING THE ULTIMATE VALUE

- Provides API gamma ray measurements that are 20 to 25 ft (6 to 8m) closer than standard MWD measurements.
- Works seamlessly with both MP and EM MWD systems to send real-time measurements to surface
- Compatible with all BHA sizes

TARGET APPLICATIONS

- Distinguish shales from non-shales
- Lithology identification
- Formation Correlation
- Picking casing and coring points
- Geosteering
- Shale volume estimation
- Formation thickness

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS

Collar OD	3.125 in (79.4 mm)	
	3.5 in (88.9 mm)	
	4.75 in (120.7 mm)	
	6.5 in (165.1 mm)	
	6.75 in (171.5 mm)	
	8.0 in (203.2 mm)	
	9.5 in (241.3 mm)	
Probe OD	1.75 in (44.5 mm) diameter	
Probe Length	30 in (762 mm) long	
Max. Dog Leg Degree per 100 zzbvv O.D	Sliding	Rotating
	12° (9.5 in)	5° (9.5 in)
	12° (8 in)	7° (8 in)
	19° (6.75 in)	8° (6.75 in)
	20° (6.5 in)	10° (6.5 in)
	28° (4.75 in)	12° (4.75 in)
	60° (3.5 in)	20° (3.5 in)
65° (3.125 in)	20° (3.125 in)	
Max. Operating Temperature	350° F (177° C)	
Max Operating Pressure	20,000 psi (137,900 kPa) (30,000 psi available)	
Range of Flow Rates per Tool Size	Tool OD	Gallons/Minute
	3.125 – 3.875 in	50 – 200
	4.750 – 6.500 in	100 – 400
	6.250 – 6.500 in	200 – 600
	5.000 – 8.000 in	250 – 1,000
9.5 in	300 – 1,500	

MEASUREMENT SPECIFICATIONS

Detector Type	NaI Scintillation Crystal
Gamma Range	0 - 1,000 AAPi
Recording Rate	1 data point every 5 seconds

** Specifications are subject to change without notice.

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