

GAMMA RAY-WELLBORE TEMPERATURE (PGT43C-A)

GR-Temp PGT43C-A Tool is mainly used for depth correlation and leakage detection. This tool integrates Gamma Ray & Temperature, and can be combined with any other Pegasus Series tools.



NATURAL GAMMA RAY MEASURING PRINCIPLE

The natural gamma ray section consists of a photomultiplier tube (PMT) and a Sodium lodide (NaI) Scintillation crystal. The sensor detects ionizing radiation naturally emitted by the formation.

WELLBORE TEMPERATURE MEASURING PRINCIPLE

Wellbore temperature measurement circuit uses a PT100 platinum thermal resistor which is linearly responsive with the ambient temperature.

FEATURES

- API Calibrated response
- Warrior Compatible
- Reduced tool length
- Combinable with all Pegasus Series Tools

APPLICATIONS

- · Correlation of cased hole logs between runs and wells
- Depth Control
- Lithology Identification
- Leakage Detection through High Resolution Temperature Log
- · Identification of production/injection intervals



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SPECIFICATIONS

	PGT43C-A	
	P/N 100510370	
GENERAL SPECS		
Maximum Pressure	15,000 PSI (103 MPa)	
Minimum Temperature	-4 °F (-20°C) / 2 Hours	
Maximum Temperature	350°F (175°C) / 2 Hours	
Diameter	1-11/16 in (43 mm)	
Tool Length	3.15 ft (0.959 m)	
Effective Length	2.87 ft (0.876 m)	
Weight	9.92 lbs (4.5 kg)	
Max. Logging Speed	32 ft/min (600 m/h)	
Operating Voltage	18V to 36V	
Offset (Standalone)	GR Section - 23.01 in (584.5 mm)	
	Temperature Section - 3.94 in (100 mm)	
GAMMA RAY		
Dynamic Range	0~10,000 CPS	
Resolution	1 CPS	
Natural Background	≥100 CPS	
Sensor Type	Nal Crystal	
Statiscal Fluctuation	≤ 7%	
Temperature Stability	≤ ± 7% (Under 175°C)	
Dynamic Range	10 kHz ~ 50 kHz	
Signal to Noise Ratio	≥ 5 kHz	
TEMPERATURE		
Probe Type	PT100	
Measurement Range	-13°F ~ 350°F (-25°C~175°C)	
Precision	±1.8°F (±1°C)	
Resolution	0.09°F (0.05°C)	
Response Time	≤15	
SIGNAL TRANSMISSION		
Signal Transmission Method	CAN Communication Port	
Signal Transmission Baud Rate	1Mbit/s	