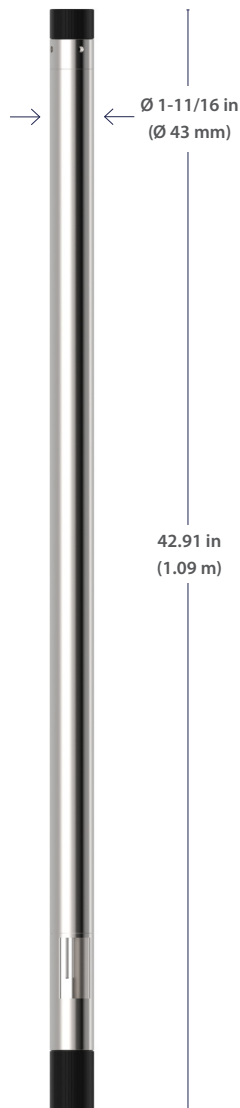




# GAMMA RAY-WELLBORE TEMPERATURE-CCL (GTC43C-E)

Gamma Ray-Wellbore Temperature-CCL (GTC43C-E) Tool is mainly used for depth correction and leakage detection. This tool integrates three parameters of CCL, Gamma Ray & Temperature, and can be combined with any other Pegasus Series tools.



GTC43C-E

## NATURAL GAMMA RAY MEASURING PRINCIPLE

The natural gamma ray section consists of a photomultiplier tube (PMT) and a Sodium Iodide (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.

## CCL MEASURING PRINCIPLE

CCL section is made up of induction coil, magnetic steel and amplifier. The induction coil is located between the four magnetic steels. When the tool meets the casing collar while it's moving in the casing, the magnetic field strength in the coil changes correspondingly to the change of the magnetic flux surrounding magnetic objects in order to generate induction voltage.

## 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



# GAMMA RAY-WELLBORE TEMPERATURE-CCL (GTC43C-E)

## SPECIFICATIONS

GTC43C-E	
P/N 100510368	
<b>GENERAL SPECS</b>	
Maximum Pressure	15,000PSI (103MPa)
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	42.91 in (1.09 m)
Effective Length	39.37 in (1 m)
Weight	15.43 lbs (7 kg)
Max. Logging Speed	32 ft/min (600 m/h)
Operating Voltage	18V to 36V
Offset (Standalone)	GR Section - 31.14 in (791 mm)
	CCL Section - 11.45 in (291 mm)
	Temperature Section - 3.29 in (83.5 mm)
<b>GAMMA RAY</b>	
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
<b>TEMPERATURE</b>	
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	≤ 1S
<b>CCL</b>	
Dynamic Range	0 ~3300 (mv)
Signal to Noise Ratio	≥ 5 kHz
<b>SIGNAL TRANSMISSION</b>	
Signal Transmission Method	CAN Communication Port
Signal Transmission Baud Rate	1Mbit/s