

2 3/4" RADII CBT + TEMPERATURE

THIS RADII™ CEMENT BOND TOOL (CBT) WITH TEMPERATURE SENSOR UTILIZES A SINGLE CERAMIC TRANSMITTER (AN EIGHT SEGMENT RECEIVER AT 3-FT. SPACING AND A SINGLE RECEIVER AT 5-FT. SPACING) TO ACCURATELY MEASURE THE QUALITY OF THE CEMENT JOB IN A CASED HOLE WELL ENVIRONMENT. THE SEGMENTED RECEIVER PROVIDES GOOD INDICATION OF CEMENT CHANNELING BEHIND THE CASING.

This cement bond tool is of high quality steel construction with oil filled, pressure compensated transmitter and receiver sections. The transmitter and both receivers are ceramic to withstand the hostile high temperature of well environments. Upon each transmitter firing, data from all the receivers is digitized and stored in internal memory, then sequentially transmitted to the surface computer.

The digital signal section is capable of transmitting data to the surface from tools run below the Radium™ CBT, such as a Gamma Ray/Casing Collar Locator (CCL), in-line neutron, compensated neutron or other tool with one or two pulse channels running below the CBT tool.

Transmission of the sonic data to the surface is accomplished by an internal controller, which transmits eight signals from the Radium™ receiver, a composite 3-ft. signal (sum of all 8 Radium™ signals), a 5-ft. receiver signal, and an internally generated calibration signal. Transmission of the remaining signals consists of digitally encoded data transmitted after the acoustic signals.

The electronics contains firmware that allows the tool to be auto-calibrated inside a calibration fixture. The digital gain is set and all signals are stored in memory. These signals can be transmitted up-hole on demand by the operator.

SPECIFICATIONS - 2 3/4" RADII™ DUAL RECEIVER CBT + TEMPERATURE

Dimensions

Diameter	2 3/4"	6.9 cm
Length	106"	2.7 m
Weight	93 lbs	42.2 kg
Operating Voltage	130 VDC	
Operating Current	45 mA DC	

Operating Parameters

Top Connection:	1 3/16" 12P GO box
Bottom Connection:	1 3/16" 12P GO pin

Operating Environment

Maximum Pressure	20,000 psi	137.9 MPa
Maximum Temperature	350°F	177°C

RELATED PRODUCTS

- 2 3/4" COMPENSATED NEUTRON TOOL
- 2 3/4" GAMMA RAY/CCL TOOL
- 2 3/4" CASING COLLAR LOCATOR (CCL) - SIX MAGNET
- 2 3/4" IN-LINE NEUTRON TOOL
- 2 3/4" CENTRALIZER

