



**2 1/2" Product Line**

**Compensated Acoustic / CBL**

The Borehole Compensated Acoustic instrument has been designed for acquiring high-resolution, full-wave acoustic data. Two ceramic monopole transmitters emit the acoustic signal, which is recorded by two ceramic receivers. During one logging run, the formation travel time in the open-hole interval and the cement bond log in the cased-hole section can be recorded. The log requires a fluid-filled borehole but is independent of the mud type.

Specifications			
Diameter:	63.5 mm	(2.5")	Transmitter Type: Ceramic, monopole
Length:	3940 mm	(155.1")	Sensors: Ceramic Transducer Array
Weight:	56 kg	(123 lbs)	
Max. Temp:	175°C	(350°F)	Transmitter-Receiver Spacing:
Max. Pressure:	140 MPa	(20 000 psi)	T1-R1 : 915 mm (3 ft)
Telemetry required:	yes		R1-R2: 610 mm (2 ft)
Top Connector:	yes		T2-R2: 915 mm (3 ft)
Bottom Connector:	yes		Delta T Measure Point (from bottom):
			1950 mm (76.7")

**Measuring Parameters**

<u>Measuring Range:</u>		<u>Accuracy</u>
DT:	100-800 µs/m (35-250 µs/ft)	DT*: ± 3 µs/m ( ±1µs/ft)
Traces	up to 4000 µs	* centralized tool in a 100 mm (4") diameter borehole

Logging parameters			
Recommended		Recommended	
Min. Hole Diameter:	100 mm (3.9")	Logging Speed:	6-15 m/min (1200- 3000 ft/hr)
Max.Hole Diameter:	400 mm (15.8")		
Min. Casing ID:	100 mm (3.9")		

Displayed Standard Curves			
<u>Open Hole</u>		<u>Cement Bond Log</u>	
DT in µs/m or µs/ft	Delta Time	SRTN (µs)	Single Receiver Travel near receiver
RuntimeT1R1 in µs	Acoustic Travel Times	AmpN	Amplitude of first arrival from near receiver, measured at casing travel time
RuntimeT1R2 in µs		Trace F (mV)	Trace Information from far receiver
RuntimeT2R1 in µs		BI	Bond Index
RuntimeT2R2 in µs			
TTI	Integrated Travel Time		
TraceT1R1 in mV	Trace information		
TraceT1R2 in mV			
TraceT2R1 in mV			
TraceT2R2 in mV			

**Combinability**

With all 2 1/2" open hole instruments and 3 3/8" open hole instruments

