



3 3/8" 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:	86/89 mm	(3.39/3.50")	Transmitter Type: Ceramic, monopole Sensors: Ceramic Transducer Array
Length:	4416 mm	(173.9")	
Weight:	99 kg	(218 lbs)	
Max. Temp:	175°C	(350°F)	Transmitter-Receiver Spacing: T1-R1 : 914 mm (3 ft) R1-R2: 610 mm (2 ft) R2-T2: 914 mm (3 ft)
Max. Pressure:	140 MPa	(20 000 psi)	
Telemetry required:	yes		
Top Connector:	yes		Measure Point (from bottom): Acoustic Mode: 1353 mm (53.3") CBL Mode: 2115 mm (83.3")
Bottom Connector:	yes		

Measuring Parameters

<u>Measuring Range:</u>		<u>Accuracy:</u>	
DT:	50-800 µs/m (15-250 µs/ft)	DT*:	± 3 µs/m (±1µs/ft)
Traces:	up to 4000 µs	* centralized tool in a 200 mm (8") diameter borehole	

Logging Parameters

<u>Recommended</u>		<u>Recommended</u>	
Min. Hole Diameter:	125 mm (4.9")	Logging Speed:	6-12 m/min (1180 - 2360 ft/hr)
Max. Hole Diameter:	550 mm (21.7")	Sample Rate:	selectable
Min. Casind ID:	114 mm (4.5")		

Displayed Standard Curves

Open Hole

DT in µs/m (µs/ft)	Delta Time for 2' spacing
RuntimeT1R1 in µs	Acoustic Travel Times
RuntimeT1R2 in µs	
RuntimeT2R1 in µs	
RuntimeT2R2 in µs	
TTI in µs	Integrated Travel Time
TraceT1R1 in mV	Trace information
TraceT1R2 in mV	
TraceT2R1 in mV	
TraceT2R2 in mV	

Cement Bond Log

SRTN in µs	Single Receiver Travel from Near Receiver
AmpN	Amplitude of first arrival from Near Receiver, measured at casing travel time
Trace F in mV	Trace Information from Far Receiver
BI	Bond Index

Combinability

With all other 3 3/8" instruments

