



PRODUCT DESCRIPTION

Tool#: 9320		Part#:	
ToolName:		Full Wave Sonic Tool	
Tool Description:		The Full Wave Sonic tool contains a single transmitter and dual receiver to record formation travel times. The full wave form data is also recorded simultaneously, along with near and far travel times, borehole-compensated delta time, calculated sonic porosity, receiver gains, near/far amplitudes and natural gamma. The sonic or acoustic log uses the basic principle of sound waves traveling through a media. The Century sonic system uses a single transmitter and dual receiver system for recording the travel times of the formation. The receivers are spaced approximately 2 and 3 feet, from the transmitter. Therefore, a 0.3 m (1 ft.) calculation can be made to measure this interval transit time. Additionally, the 9320 can be upgraded for cement bond logging, by adding a casing collar locator (see below for link)	
Tool Specifications		Illustration	
Length:		283.2 cm (111.5 in.)	
Diameter:		50.8 mm (2.0 in.)	
Weight:		22.7 kg (50 lb.)	
Temperature:		85 C (185 F)	
Pressure:		175 kg/cm2 (2500 PSI)	
Voltage Required:		85 vdc	
Logging Speed:		9 m/min.@0.06 SI (30 ft./min. @ 0.2 ft. SI)	
Sensors			
1. Natural Gamma:			
Mechanical Centralizer2.5 x 10.2 cm(1.0 x 4.0 in.)NaI			
ScintillationOffset: 22.9 cm (9 in.			
2. Transmitter:			
24 khz. Piezoelectric			
Offset: 170.2 cm (67 in.)			
3. Acoustic Isolator:			
Thermoplastic polyester			
Offset: N/A			
4. Near Receiver:			
(2 ft.) spacing			
Offset: 231.1 cm (91 in.)			
5. Far Receiver:			
(3 ft.) spacing			
Offset: 266.7 cm (105 in.)			

9320 Full Wave Sonic Tool

283.2 cm (111.5") Overall Length

0.0

Natural Gamma 22.9cm (9")

Transmitter 170.2cm (67")

Acoustic Isolator

Near Receiver 231.1cm (91")

Far Receiver 266.7cm (105")

Tool od is 50.8mm (2.0") and, Weight in air is 22.7Kg (50 lb.) (Drawing Not to Scale)