

Full-Wave Sonic (FWS™) Tool

APS Technology's Sonic is a formation slowness measurement tool designed for wireline-equivalent Logging-While-Drilling (LWD) and Measurements-After-Drilling (MAD) services. High-resolution data is stored in downhole memory for retrieval and processing during trips. Sonic's features include:

- > Real-time telemetry values:
 - » Δt_c @ 1 µsec/ft resolution
 - » Δt_s @ 1 μsec/ft resolution
 - » 1st and 2nd coherence peaks "strength" @ 4, 6 or 8 bits (compressed VDL)
 - » Magnetic toolface
 - » Transmitter and receiver health indicators
- > Waveform stacking mode: 2 8 accumulated waveforms per receiver; 100 msec to 1 sec measurement intervals
- > Double-redundant (dual) 10 12 kHz transmitters
- > Six receivers located 6.0, 6.5, 7.0, 7.5, 8.0 and 8.5 ft from transmitters
- > Full waveform recording in memory
- > Hatch cover for easy access via cable for tool programming and memory dump
- > Full SureShot™ Control Center (SSCC™) and APSPlot™ support
- > Compatible with 3rd-party petrophysics and geophysics packages via DLIS, LAS, ASCII and WITS



Product Specifications

General Specifications	
Diameter	4.75 in. (121 mm), 6.75 in. (172 mm) and 8.0 in. (204 mm)
Measurement Range	40-189 μsec/ft
Accuracy	±1 μsec/ft
Precision	1/2 μsec/ft
Vertical Resolution	3 ft
Recording Time	200 hours
Environmental	
Operating Temperature	32° to 302°F (0° to 150°C); 347°F (175°C) option
Maximum Pressure	20,000 psi (137.9 MPa)



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Specifications subject to change without notice.

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