

Quantum XTool™ MWD Kit

High Speed Pulse

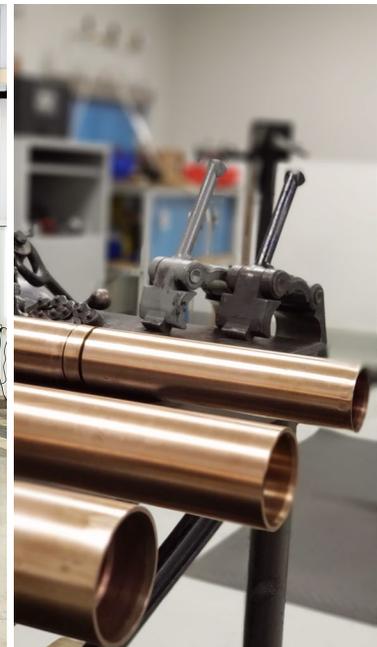
XTool™ MWD Kit delivers up to 2 bps to surface, making it one of the fastest conventional pulse tools on the market. The pulse driver board and beefy driveline pair to deliver increased valve speed and superior precision position control. The short 6 ft 175°C electronics probe contains the pulser, directional and gamma sensor and can be set up with either a slick probe or centralized probe system and mates to one or two batteries. The Quantum decoder surface system utilizes two transducers and is fully integrated with our DigiDrill logging and depth system.

175°C Ruggedized

Our assembly is made to withstand temperatures of up to 175°C using premium electronic components for maximum temperature performance. We utilize ruggedized gamma detectors, custom centralization and accelerometers that help prevent failures in today's harsh drilling conditions.

Short Probe Configuration

The probe assembly consists of electronics and battery(s). Typical set-up is an 11' probe – one battery with electronics, resulting in a 15' collar length. The shorter package better isolates the tool and results in improved shock and vibration management. The efficient electronics allow for the one battery configuration in most well applications – intermediate or lateral.



Quantum Specifications

	XTool Pulse™
Temp Rating	175°C
Vibration (Shock)	20 g RMS, 15 to 500 Hz (1,000 g, 0.5 ms, half-sine)
Max data rate (at 20k')	Up to 2 bps
LCM tolerance	50lb/bbl published
Max Flow Rate (6.5")	750 GPM
Max Flow Rate (8.0")	1,000 GPM
Max Flow Rate (9-5/8")	1,200 GPM
Shock/Vibe	Yes
Rotational Values	Yes
Power Consumption	~3mA standby, ~100mA*sec/pulse @ 28V (~3.5 joules/pulse)
Dogleg Rating Rotating 7"	18° / 100ft
Gap Sub Torsional Strength	N/A

