

CPR Resistivity Tool

The Compact Propagation Resistivity (CPR) Tool utilises two frequencies (400Khz and 2Mhz), and three transmitter-receiver spacings to provide a total of six resistivity curves at six depths of investigation.

Description

The CPR propagates a magnetic field into the formation at 2MHz and 400Khz, and measures phase difference-based resistivities at three transmitter-receiver spacings to provide a total of six resistivity curves at six depths of investigation.

High vertical resolution compensated data is available in real-time and memory for comprehensive and accurate formation evaluation or geosteering applications.

The use of Ultima Labs patented Bore-hole Compensation System results in a shorter tool that offers state-of-the-art borehole compensation resulting in an overall shorter tool.

CPR's unique design allows simple replacement of electronic housings, wear sleeves and antenna shield sections when required.

Features

- Three transmitter-receiver spacings, two operating frequencies (2MHz and 400KHz) - Six Resistivity Curves.
- Patented Depth Compensation System - Shorter overall tool length.
- Unique design - less expensive to own and maintain with no sacrifice to data quality.
- High vertical resolution - accurate formation evaluation capability.
- Standalone or combinable with Geolink and Pilot MWD systems.

Specification

Measurement	Range	Accuracy
2Mhz Shallow, Deep and Medium	0.1 to 1000 Ohm.m	+/- 2% (0.2 to 25.0 Ohm.m) +/- 0.8 mmho/m (>25.0 Ohm.m)
400KHz Shallow,Deep and Medium	0.1 to 400 Ohm.m	+/- 2% (0.1 to 10.0 Ohm.m) +/- 2.0 mmho/m (>10.0 Ohm.m)
General		
Memory Capacity	16Mbyte (~200 hours data storage nominal)	
Battery Life	~200 hours (Varies according to formation conductivity)	
Collar Sizes (O.D.)	Nominal 4¾ in (127mm)	5.37in (136mm) at wear bands
	Nominal 6¾ in (171mm)	7.37in (187mm) at wear bands
	Nominal 8in (203mm)	8.5in (216mm) at wear bands
Max Flow Rates	315 USGPM (19.8 l/s)	Rotating 17°/100ft, Sliding 35°/100ft
Max Dogleg Severity	660 USGPM (41.6 l/s)	Rotating 10°/100ft, Sliding 21°/100ft
	1100 USGPM (69.4 l/s)	Rotating 5°/100ft, Sliding 12°/100ft
Environmental		
Temperature	0 to 150°C	0 to 302°F
Pressure	20,000 psi	137.9Mpa

