

# TRIM Resistivity Tool

The Geolink TRIM Induction Resistivity Tool utilises 20Khz Induction Resistivity technology to provide geosteering and formation evaluation information while drilling.

## Description

The TRIM Induction Resistivity tool injects a 20Khz signal into the formation and then measures the return signal - which is proportional to formation conductivity. The TRIM sensor package is mounted in a side channel in the resistivity sub, affording superior protection against borehole wall impact damage and allowing easy maintenance and replacement when required. Typically sited at the bottom of the LWD string, the tool transmits data in real time for correlation and geosteering purposes and stores high resolution data downhole for later download at surface. Calibration is straightforward with sonde error and temperature corrections applied downhole in firmware. Deconvolution, borehole corrections, etc., are automatically applied in Geolink's Navigator surface software.

## Features

- Wireline comparable log - 20Khz frequency
- Straightforward calibration - sonde and borehole corrections in software
- Side channel mounting - Sensor protection and easy maintenance
- Depth of Investigation - equivalent to wireline deep induction
- Good vertical resolution - equivalent to wireline medium induction

## Specification

Measurement	Range	Accuracy
Induction Resistivity	0.1-2000 Ohm.m nominal	+/- 0.5% @ 1.0 Ohm.m +/- 2.5% @ 10 Ohm.m (>10 Ohm.m uncertainty +/-2.5 mmho/m)
<b>Other</b>		
Vertical Resolution	12 to 24" (305 to 610mm)	
Diam. of Investigation	84" (2130mm) 112" (2845mm) 122" (3099mm)	@ Rt=1 Ohm.m @ Rt=10 Ohm.m @ Rt=100 Ohm.m
Max. Data Sampling	Every 8 seconds	
Memory Capacity	Resistivity Only Resistivity + Quality & Diagnostic Data	~390 hours ~330 hours
Battery Life	~250 hours (Varies according to formation conductivity)	
Update Resolution	Real Time Memory	0.5' at 50'/hr - 1.5' at 150'/hr (Avg.) 0.1' at 50'/hr - 0.3' at 150'/hr
<b>Environmental</b>		
Temperature	Operating: 0-150 Deg. C Survival: -20 - 165 Deg. C	
Pressure	15,000 psi (20,000 on request)	
Vibration:	20g RMS 30-300 Hz Random, 30g 50-300 Hz Sine	
Shock	1000g 0.5ms, half sine	

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