



TECHNICAL SHEET

OIL FIELD	DUAL LATEROLOG MODULE	SLIM-2.5"
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Generality and principle of measurement

The dual laterolog provides deep and medium penetrating resistivity measurements using a classic laterolog-9 electrode configuration. It is the preferred alternative to the array induction probe in saline drilling muds. The tool is run below a solid insulated bridle that includes the SP, voltage-reference and Groningen measurement electrode. A specific isolator module is used with this module. This insulated section is positioned between the cable head and the DHT module (if used).

An alternating current from a centre electrode A0 passes through the formation and returns to a surface fish (deep resistivity) or to electrodes A2 and A2' on the probe (shallow resistivity). A bucking current flowing from the guard-electrode pair A1 and A1' is controlled to maintain the monitor electrode pairs M1M2 and M1'M2' at the same potential. These equipotential surfaces constrain the measure current path to a disc of thickness 2ft.

Measurements and applications

Deep (LLD) and shallow (LLS) resistivity	Invasion Profile
SP	Fluid Saturation
Groningen effect	Permeability Indication

Technical specifications

Length	9.04 m (357")
Diameter	63 mm (2.5")
Weight	102 kg (225lb)
Max. Operating Temperature	125°C
Max. Operating Pressure	86 MPa
Operating conditions	Open-hole, mud / water filled Ø:102mm (4") to 305mm (12")

Sensor Array

Range	0.1 to 40 000 Ohm.m
Accuracy	5% at 1000 Ohm.m
Resolution	1% measured value

