



TECHNICAL SHEET

OIL FIELD

MICRO-RESISTIVITY IMAGING MODULE

SLIM-2.5"

Generality and principle of measurement

The RG micro-resistivity imaging probe provides a high-resolution spatially oriented image of features on the borehole walls. The tool includes 4 pads each containing twelve button electrodes mounted on 2 pairs of powered arms. The current emitted by each electrode is focussed into a narrow beam and returns to a remote part of the tool body. The current from each electrode is measured and digitized in each pad and transmitted to the surface by a separate telemetry module using a proprietary high-speed communications system. The tool may be run on standard 4-core or 7-core cables and is compatible with the standard RG oilfield surface system running Warrior software.

Measurements and applications

	Identification of faults and folding
Micro-resistivity	Location/ characterisation of fractures
Borehole drift and inclination	Determination of structural dips
Borehole diameter (XY caliper)	Analysis of sedimentary structures and cross-bedding
Natural gamma	Core orientation

Technical specifications

Length	3.36 m (132") – splits into two sections -
Diameter	91 mm (3.6")
Weight	56,5 kg (124lb)
Max. Operating Temperature	125°C
Max. Operating Pressure	86 MPa (12,500psi)
Operating conditions	Open-hole, mud / water filled Ø:102mm (4") to 257mm (10.1") Centralisation required Logging speed : 5 m/mn

Sensor Array

Button current precision	16-bit (48 button electrodes - 12 on each pad -)
Resolution (radial & vertical)	7mm (46% wall coverage in 146mm borehole)
Caliper accuracy	+/- 5mm
Inclination accuracy	+/- 0,1 deg
Azimuth accuracy	+/- 5 deg



3360 mm