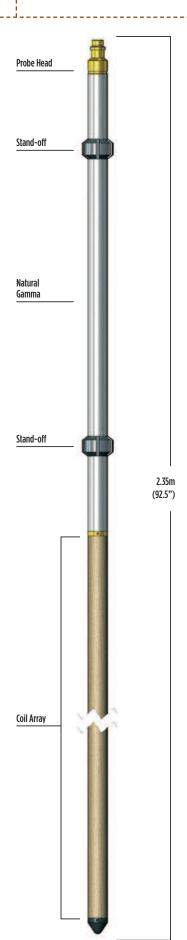
Dual Focussed Induction | Ultra-Slim Induction



The Dual Focussed Induction probe provides two simultaneous conductivity logs, corresponding to "medium" and "deep" radii of investigation into the formation.

The two depths of penetration are useful in porous, permeable formations where displacement of formation fluids by drilling mud creates an "invasion zone" with different electrical properties. The 1" focussed induction probe produces a single medium penetration conductivity log. It finds particular application in small-diameter dry or plastic-lined boreholes used for mineral exploration and for conductivity/resistivity in dry holes.

Principle of Measurement:

An oscillating high-frequency magnetic field from a transmitter coil within the probe induces an alternating electrical current within the surrounding conductive formation. This current, in turn, induces voltages within receiver coils proportional to the formation conductivity. The transmitter-receiver spacings determine the depth of investigation of the measurements. Additional focusing coils minimise the contribution of the borehole signal.

SPECIFICATION:

Features

Formation conductivity measurement in wet/dry boreholes or through plastic casing
Separate deep and medium penetrating measurements give information on invaded zone

Focussed measurements for minimum borehole signal PSD (phase-sensitive detector) discriminates between magnetic susceptibility and conductivity signals

Measurements

Deep formation conductivity

Medium formation conductivity

Natural Gamma

Applications

Water

Indicator of permeable zones and porosity

Formation water salinity

Long-term well monitoring

Mineral/Engineering

Ore identification and quality

Correlation

Other

Indication of hydrocarbons

Operating Conditions

Borehole type: open/plastic or grp cased, air/water-filled

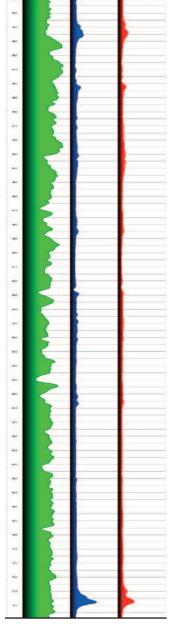
Recommended Logging Speed: 5m/min

Specifications

	Diameter:	38mm/25mm
	Length:	2.35m/1.95m
	Weight:	6kg
_	Temperature:	0-70°C (extended ranges available)
_	Max. pressure:	20MPa
_	Number of coils:	Dual Induction 7, Ultra-slim 4
_	TX-RX spacings:	ILM 50cm (20"), ILD 81cm (32")
-	Conductivity range:	3 to 3300mS/m

Part Numbers

1002087 Dual Focussed Induction probe with natural gamma		
	iatural gamma	1002087
1002091 Ultra-Slim Induction probe with natural gamma	al gamma	1002091



Example of logging data

Dual Focussed Induction Probe

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