

Dual Focused Induction DIL38

The **Dual Focused Induction DIL38** sonde uses a seven-coil focused electromagnetic array to provide two simultaneous conductivity logs, corresponding to “medium” and “deep” radii of investigation in the formation.

A high frequency magnetic field from a transmitter coil inside the probe induces an alternating electrical current within the surrounding conductive formation. This current, in turn, induces a voltage within receiver coils in the probe, proportional to the formation conductivity.

The transmitter-receiver spacings determine the depth of investigation of the measurements. Additional focusing coils minimize the contribution of the borehole signal.

The probe coil spacings are optimized to achieve high vertical resolution and a deep radius of investigation, with minimal borehole influence when logging in conductive-fluid filled boreholes.

The **Dual Focused Induction DIL38** main features are:

- Formation conductivity measurement in dry or fluid-filled borehole or even in PVC casing
- Separate deep and medium penetration measurements giving information on the invaded area
- Phase detector discriminates between magnetic susceptibility and conductivity signals
- Natural gamma measurement available for correlation

TECHNICAL SPECIFICATIONS

Length:	2.32m
Diameter:	38mm
Weight:	7kg
Max. Operating Temp:	70° C
Max. Operating Pressure:	200bar

WIRELIN

Cable Type:	Any standard wireline - coaxial, mono or multi-conductors Automatic cable selection and switching
Logger Compatibility:	eMindLogger / RG Micrologger

SENSOR ARRAY

Operating Frequency:	39.062 kHz
Number of coils:	7
Effective Tx-Rx Spacing:	ILM: 50cm (20"); ILD: 81cm (32")
Measuring Range:	0 to 3000mS/m
Resolution:	0.2mS/m
Drift over T° range:	<5mS/m
Natural Gamma Detector:	Nal(Tl) scintillation crystal; 25mm x 50mm

ACCESSORIES & OPTIONS

Field Calibrator
Natural Gamma

MEASUREMENT FUNCTIONS

Deep Formation Conductivity
Shallow Formation Conductivity
Natural Gamma