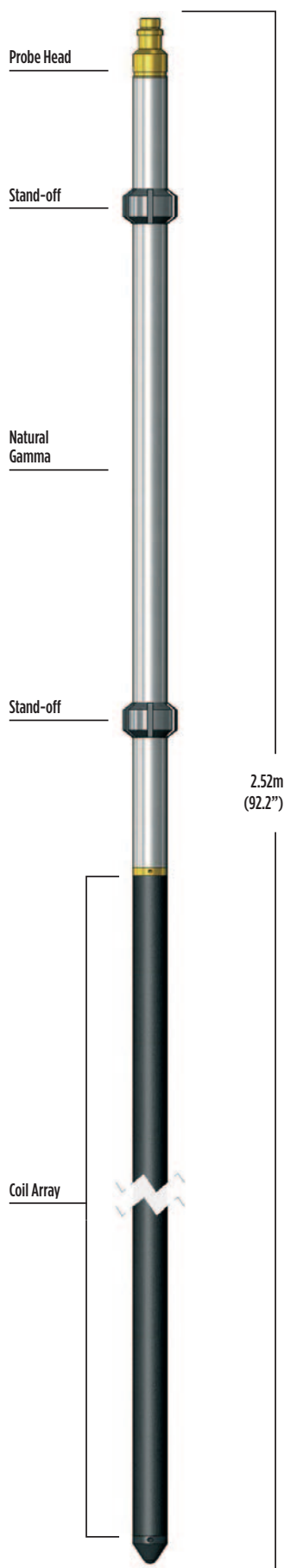


## PROBES

### DUAL FOCUSSED INDUCTION



Dual Focused Induction Probe

The Dual Focused 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” focused 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 focussing 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

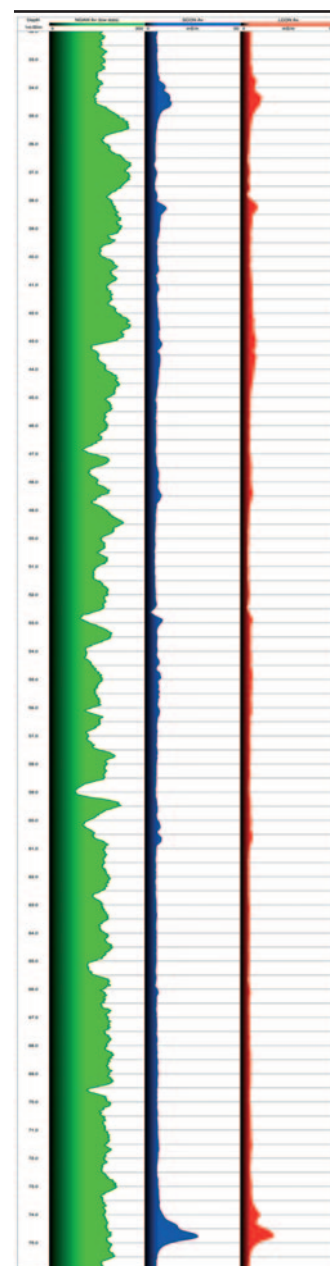
Borehole type: open/plastic or grp cased, air/water-filled  
Recommended Logging Speed: 5m/min

##### Specifications

Diameter: 43mm  
Length: 2.52m  
Weight: 8.6kg  
Temperature: 0-70°C (extended ranges available)  
Max. pressure: 20MPa  
Number of coils: 6 coils: Tx and Ref, Bucking1, Receiver1, Bucking2, Receiver2  
TX-RX spacings: ILM 50cm (20”), ILD 81cm (32”)  
Conductivity range: 3 to 3300mS/m

##### Part Numbers

1002087 Dual Focused Induction probe with natural gamma



Example of logging data

► [CLICK HERE  
FOR ENQUIRY FORM](#)