

Slim Single Focused Induction EM25

The Slim Single Focused Induction EM25 sonde uses a three-coil focused electromagnetic array to provide a conductivity log.

An oscillating 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 sonde 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 Slim Single Focused Induction EM25 sonde main features are :

- Formation conductivity measurement in dry or fluid-filled borehole or even in PVC casing
- Phase detector discriminates between magnetic susceptibility and conductivity signals
- Natural gamma measurement available for correlation

SPECIFICATIONS :

- Length : 1,95m
- Diameter : 25mm(1")
- Weight : 2,5kg
- Max. Temp / Pressure : 70°C / 200 bar

WIRELINE :

- 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 : 4
- Effective Tx-Rx Spacing : 50cm (20")
- Measuring Range : 0 to 3000mS/m
- Resolution : 0.2mS/m
- Drift over T°range : <5mS/m
- Natural Gamma Detector : NaI(Tl) scintillation crystal; 13mm x 50mm

ACCESSORIES & OPTIONS

- Field Calibrator
- Natural Gamma

MEASUREMENT FUNCTIONS

- Formation Conductivity
- Natural Gamma