



Instruments and Software for the borehole logging industry

QL 40 – Elog

The QL40–Elog probe is a classic shallow, medium and deep reading resistivity tool (8", 16", 32", 64" normal resistivity, single point resistance (SPR) and spontaneous potential (SP). The probe is equipped with electrodes, measurement electronics and an insulated bridle for single conductor wire line. A low frequency bi-directional electric current from a source electrode on the probe returns through the formation to the cable armor above the bridle. Potentials due to this current flow are measured on various sensor electrodes on the probe with respect to a voltage reference fish normally located at the surface. The spacing between the source and individual sensor electrodes determine the depth of investigation of the measurement. These measurements are converted to apparent formation resistivity within the probe and are digitally transmitted to the surface system (MATRIX or ALTLogger).

As member of the QL (Quick Link) product family the QL40-Elog can be stacked as mid section with other QL probes and run in a tool string.

Technical Specifications:

Sensor:

Stainless steel electrode with digital measuring circuitry

Measurement Range:

8", 16", 32", 64" normal resistivity: 1 to 10,000 ohm-m

SPPR: 1 to 10,000 ohm-m

SP: -2500 to +2500 mV

Operation Temperature:

0 – 70°C (32 – 158°F)

Operation Pressure (max):

200 bar (2900 psi)

Tool Diameter:

43 mm (1.7")

Tool Length:

1.9 m (75")

Tool Weight:

9 kg (19.8 lbs)

