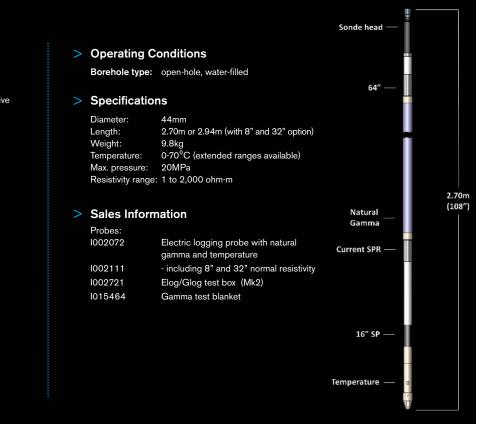
O Electric Logging Probe (ELOG)

The Elog is the classic water-well combination probe combining shallow, medium and deep penetrating resistivity measurements with self-potential (SP).

Principle of Measurement:

A low-frequency bi-directional electric current from a source electrode on the probe returns through the formation to the cable armour above an insulated bridle. Potentials due to this current flow are measured on various sense electrodes on the probe with respect to a voltage reference 'fish' normally located at the surface. These measurements are converted to apparent formation resistivities within the probe and digitally transmitted to the surface.

oprobe specification



> Features

Digital down-hole measurement avoids errors due to cable effects

Constant-power down-hole current source give 4 decades of measurement without manual range switching

> Measurements

16" Normal resistivity 64" Normal resistivity Single-point resistance Self-potential SP Natural-gamma Temperature Optional 8" and 32" Normal resistivity

> Applications

Water

Determination of water quality Indication of permeable zones and porosity Minerals/Engineering Bed-boundary positions Strata correlation between bore<u>holes</u>