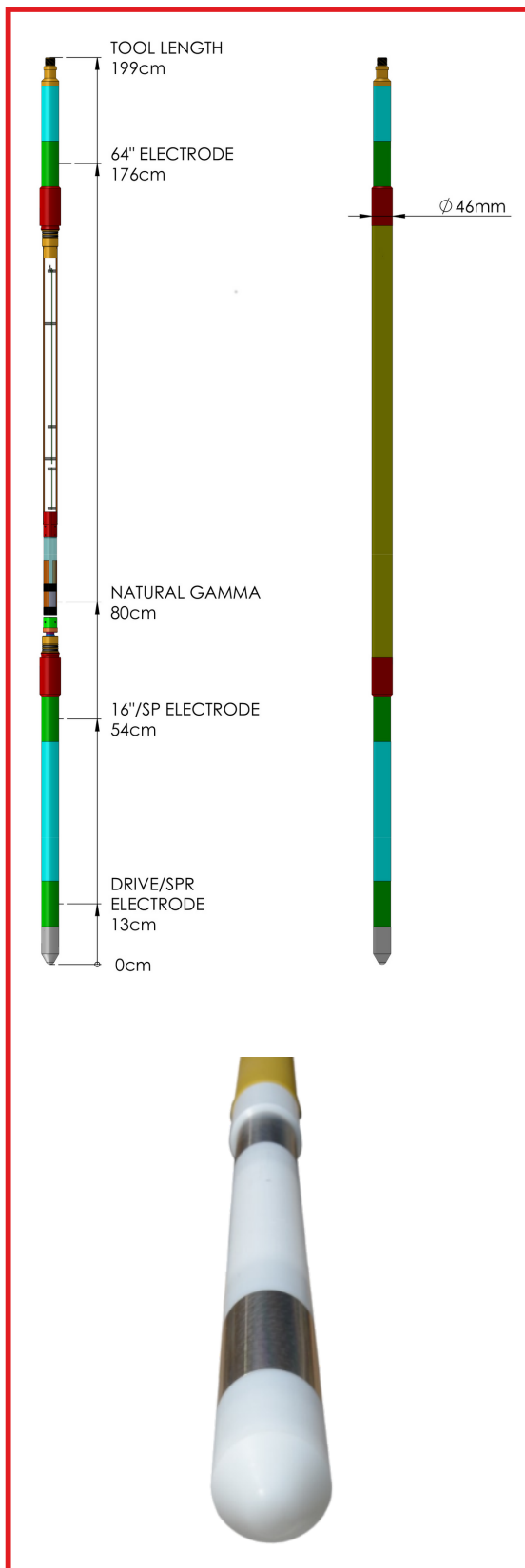


Electric Logging probe



The **ELG46** probe represents the latest generation of fully digital, high precision electric logging probes.

As standard, the **ELG46** probe provides long (64") and short (16") normal resistivity, single-point resistance (SPR) and self-potential (SP) data. By means of a simple software command, the probe can be switched to «passive» mode. In this configuration the injection signal is switched off, allowing an unperturbed and representative SP measurement to be obtained.

Widely employed in the domain of groundwater resources exploration and evaluation, the probe is suitable for use in formations having resistivity values of between 10 and 25 000 $\Omega \cdot m$.

The novel electrode arrangement and compact electronics section reduce the overall length of the probe and make for easier transport.

As an option, the probe can be supplied with a natural gamma detector to provide additional lithological information or for horizon correlation purposes.

Specifications

- ✓ Diameter: 46 mm
- ✓ Length: 1990 mm
- ✓ Weight: 8 kg
- ✓ Max. operating temperature: 70°C
- ✓ Max. operating pressure: 200 bar
- ✓ Power supply: 70 to 100 Vdc

Data / sensor parameters

- ✓ Resistivity injection signal: 200 Hz sine wave with ALC
- ✓ Resistivity measuring range: 0 to 25 $k\Omega \cdot m$ (16-bit)
- ✓ Resistivity resolution: 0.4 $\Omega \cdot m$
- ✓ SP measuring range: ± 1500 mV
- ✓ SP resolution (accuracy): ± 1 mV

Accessories / options

- ✓ Natural gamma detector: $\varnothing 25 \times 50$ mm NaI(Tl) crystal
- ✓ Calibr. box 10 – 10 000 $\Omega \cdot m$

Borehole conditions

- ✓ Fluid-filled, open borehole