

Focused electric probes GUIP 38 & GUIP 38G



Naturel gamma
detector

Communications
and power supply

Upper focussing
electrode

Current injection and
measurement electrode

Lower focussing
electrode

With the **GUIP 38** tool, the use of a pair of equipotential «guard» electrodes ensures a reliable formation resistivity measurement by focussing the injected current in a way that maximises vertical resolution and penetration into the formations while avoiding dissipation in the borehole fluid. An onboard processor calculates formation conductivity and capacitance values.

Due to focussing of the injection current, this method allows a resolution of thinner layers compared to a measure of the normal type. The other advantage of this method lies in the fact that it is suitable for difficult hole conditions (salt mud).

A natural gamma detector incorporated into the tool provides lithological information and is useful for correlation purposes.

Applications include formation porosity and water quality evaluation.

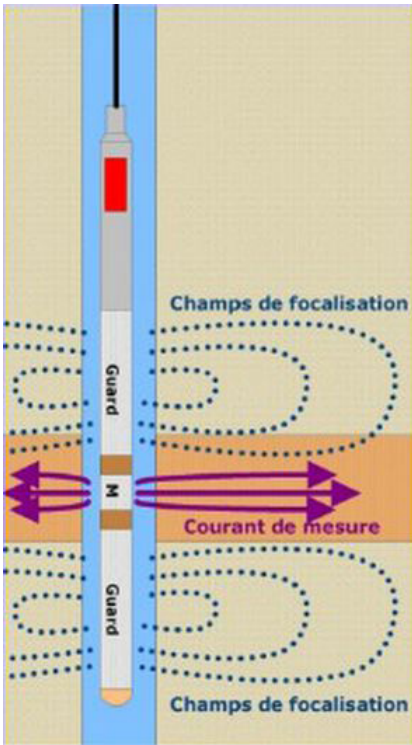
SPECIFICATIONS :

- Diameter : 38 mm
- Length /Weight : 2500 mm
- Max. Temp / Pressure : 70°C / 200 bar
- Resistivity Resolution :
 - 0.125 ohm.m(8kohm.mfull scale measurement range)
 - 0.5 ohm.m(32kohm.mfullscale measurement range)
- Conductivity resolution : 0.03125mmho/m(2 kmmho/m measurement range)
- Capacitance resolution : 1nF/m (65µF/m measurement range)

OPTIONS ACCESSORIES :

- Gamma ray sensor
- Transport case

Examples



The focussing system of the GuardLog probe permits the resolution of thin beds.



Current injection and measurement electrode

Borehole conditions

- fluidfilled borehole
- open borehole
- gives optimal results where the borehole fluid is significantly lower than that of the formations
- any drilling method

The borehole must be at water and bare hole for that the probe whether operational.

The best results are obtained when the resistivity of borehole fluid is of manner significantly lower than that of the formations.

