

## TECHNICAL SHEET

**ELECTRIC**

**SHORT & MEDIUM  
NORMAL**

**ELOG**

### Generalities

**Principle**

A low-frequency bi-directional electric current from a source electrode on the probe returns through the formation to the cable armor above an insulated bridge.

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.

**Results**

The probe provides short and medium normal resistivity measurements with self-potential (SP).

**Interest**

Determination of water quality, indication of permeable zones and porosity, bed-boundary positions, lithological information etc...

**Option**

Natural gamma sensor, self-potential (SP), single point resistance (SPR).

### Constraints / borehole

- |                 |   |  |   |  |
|-----------------|---|--|---|--|
| filing up       | : | <input checked="" type="checkbox"/> water      | <input checked="" type="checkbox"/> mud         | <input type="checkbox"/> dry             |
| casing          | : | <input checked="" type="checkbox"/> PVC screen | <input type="checkbox"/> steel                  | <input checked="" type="checkbox"/> open |
| borehole        | : | <input checked="" type="checkbox"/> cored      | <input checked="" type="checkbox"/> destructive |  |
| max. depth      | : | 2000 m   |   |  |
| effective diam. | : | 55 mm – 300 mm                                 |   |  |
| temperature     | : | 0°C – 70°C                                     |   |  |
| max. pressure   | : | 200 MPa  |   |  |

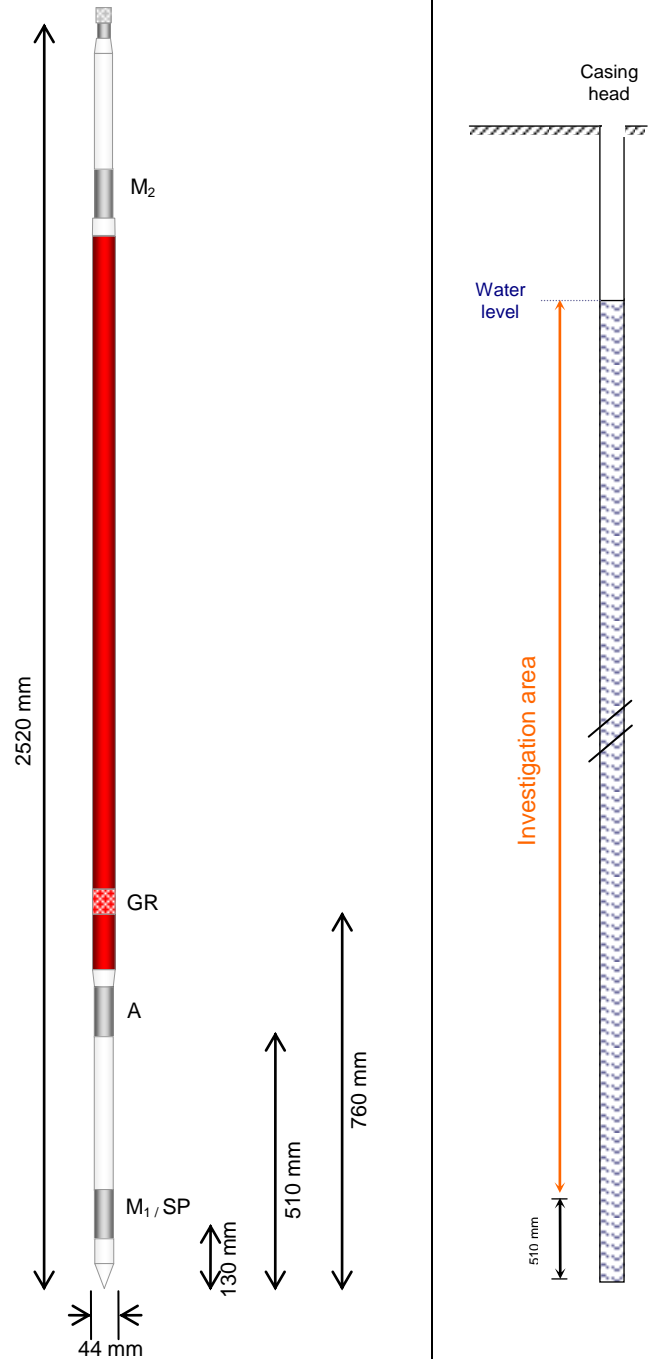
### Technical specifications

**Dimensions**

- length : 2520 mm
- diameter : 44 mm
- weight : 9.8 kg

**Elements**

- 1 injection electrode : A
- 2 guard electrodes : M<sub>1</sub> & M<sub>2</sub>
- 1 natural gamma ray sensor : GR



### Records / Measures

**Records**

- Tool :  centered  off-centered
- Measure :  down  up
- Rec. speed : 5 m/min

**Measurements**

- Range : 2 - 10000 Ω.m
- Horiz. resolution : 0,2 % of full scale
- Vert. resolution. : 10 cm

Example

