Non-Polarizable Electrode

PRODUCT LEAFLET

Self Potential surveys and Induced Polarization soundings

The purpose of an electrode is to establish electric contact between an electronic conductor (the cable) to an ionic conductor (the earth). All sort of electrodes generate ”noise”. This is of importance only at the potential electrodes.

Noise is defined as the fluctuating voltage that appears between a pair of electrodes, placed so close that no other ”natural” voltages appear. It’s evident that non-polarizable electrodes create much less noise than steel electrodes.

The ABEM Non-Polarizable Electrode consists of a solid lead-chloride compound which significantly prolongs the lifetime since it doesn’t need refilling, compared to a conventional copper-sulphate ($CuSO_4$) electrode that needs regular refilling.

ABEM Instrument AB
Löfströms Allé 1
172 66 Sundbyberg, Sweden
www.abem.se

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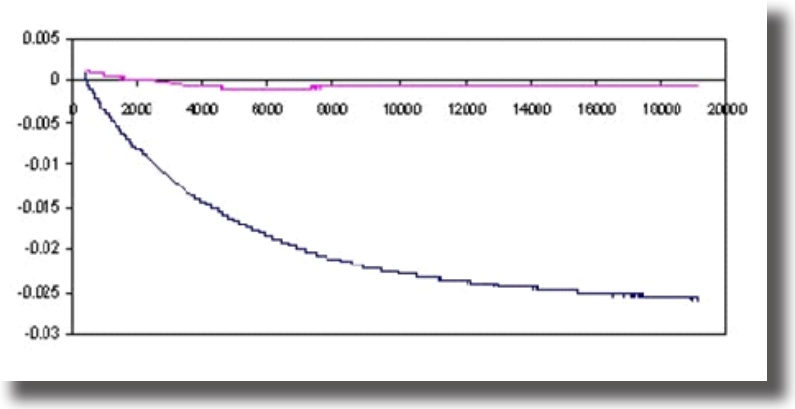

Comparison of registrations of self-potential measurements with $PbCl_2$ electrodes (upper curve)and steel electrodes (lower curve)

General

This electrode does not need any special care. However, after using an electrode, always clean it and replace the electrode cover to prevent drying out

Made of

The ABEM Terrameter type of electrode consists of a solid state gypsum rod, covered with a poly ethylene plastic cylinder. The gypsum contains lead chloride ($PbCl_2$), and a solid lead rod is placed in the centre

Physical properties

Weight: 0.25 kg
Size: 210 x 40 x 40 mm

Precautions

The content of the electrode is poisonous

- Do not put the electrodes in your mouth
- Avoid direct contact with the electrodes - use protective gloves
- Wash your hands after any direct contact with the electrodes
- Keep the electrodes away from children
- Dispose of properly

Ordering

Part number	33 0015 79

With reservations for changes; our products undergo continuous development

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Field Equipment

Consult your local ABEM distributor for full details of the various configurations available for you.

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