



Medical Electrodes and Accessories



Instructions for use

Model: BX

Please read the instruction book carefully before using

1. Overview

This specific product is comprised of an electrode cup with a wire. The wire is terminated with a 1.5 DIN safety socket. The base of the electrode cup is pure silver or high quality alloy material, coated with silver chloride, pure gold or other composite materials.

2. Intended use

The products will be used in both clinical and research applications for the acquisition of surface bio-potentials with conductive gel or paste, i.e. Electroencephalograph (EEG), Electrocardiograph (ECG), Electromyography (EMG).

3 Principle

Bio-potential is a basic physiological phenomenon of the human body which provides very important information for medical science and clinical applications. Electrodes are sensors for the acquisitions of biopotential, they can transmit the physiological and pathological signals into electrical signals which can be analysed by computer. The conductive gel works as electrolyte medium between the human body and the electrodes.

4 Main technical characteristics

Key parameters, measured in physiological saline, are as follows

- AC Impedance: $\leq 0.8 \text{ K}\Omega$ at 10Hz;
- DC bias: $\leq 20 \text{ mV}$;
- Potential Drift: $\leq \pm 20 \text{ mV/h}$.

5. Method

- 1) Prepare patient skin by applying skin preparation gel where necessary;
- 2) Make sure the electrodes are ready;
- 3) Put the gel into the electrode's gel holder before locating the electrodes on the body spot that to be measured;
- 4) Connect the electrodes and the measuring instrument;
- 5) Adjust the instrument if necessary and start the measurement;
- 6) After the measurement is finished, clean the gel inside the electrodes with clean water and dry the electrodes in air.



6. Precaution

- 1) Only for in-vitro measurement.
- 2) If the wire is aged and obviously fractured, please use with caution.
- 3) Do not pull the wire forcibly.
- 4) Recommended storage environment: dry, temperature: 5-30 C (41-86 F) and without caustic gas.
- 5) Be careful if skin becomes seriously irritated.
- 6) Do not put the electrodes on scar tissues and inflammations.

7. Validity Date: 2 years

	Batch number		Date of Manufacture
	Please read the instruction book carefully before using		Validity
	Warning, please refer to the instructions in the annex		Manufacturer
	Keep away from sunlight		Keep dry
	European union authorized representative		
	The product meets the basic requirements of European medical devices directive 93/42/EEC		



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