

# Disposable Electrode for EEG

## NE-09 (NE-090S1, NE-091S7)

### General

The NE-09 disposable electrode is for EEG measurement in the ER or ICU. The disposable electrode is for the Nihon Kohden AE-120A head set and BE-090AS or BE-090AM head band for EEG.

### Safety Information

**⚠ WARNING** A warning alerts the user to the possible injury or death associated with the use or misuse of the instrument.

**⚠ CAUTION** A caution alerts the user to possible injury or problems with the instrument associated with its use or misuse such as instrument malfunction, instrument failure, damage to the instrument, or damage to other property.

Pay attention to all safety information in the Operator's Manual or Installation Guide.

#### **⚠ WARNING**

- Do not use this electrode during MRI examination because it may cause skin burn on the electrode placement area.
- Do not reuse disposable electrodes.
- Use the electrode only with the specified devices. If this electrode is connected to an unspecified device, the patient may get electrical shock.

#### **⚠ CAUTION**

- When using an ESU, refer to the operator's manuals of the devices. The patient may get skin burn.
- Do not use the electrode for low birth weight infant, neonate or child.
- Do not use this electrode for ECG monitoring or electric stimulation.
- Do not use electrodes which are past the expiration date.
- Do not attach electrodes on a wound or inflamed skin.
- For the following patients and skin sites, redness and skin erosion may occur and occasionally result in scar.
  - Patients with weak skin (patient with allergy)
  - Delicate or weak skin
- Use the electrodes as soon as possible after opening the package to prevent the electrodes from drying.
- If the skin was disinfected with iodine, wipe the skin with ethanol before placing the electrode.
- Check the patient's skin every hour. If the skin gets irritated or redness appears on the skin from the electrode, stop using the electrode or place a new electrode on a fresh site.
- If the electrode starts to come off or noise interferes with the EEG, replace the electrode with a new one.
- Take extreme care to prevent the patient from swallowing the electrode. The electrode is chemically harmless to people but the adhesive gel on the NE-090S1 electrode is highly expansive. If the electrode is swallowed, the adhesive gel absorbs gastric juice and swells several to several dozen times in size and stays in the stomach. Swelling adhesive gel in stomach will cause the patient to vomit and be unable to eat and drink. After removing the electrode, check there is no adhesive gel left on the patient.
- To prevent electrodes from being swallowed, make sure that the number of electrodes to be disposed of is the same as the number of electrodes that were taken out of the package.
- Do not get liquid on the electrode. The adhesive becomes weak and correct measurement might be impossible.
- When using adhesive remover, wipe the adhesive remover completely before attaching the electrode. For usage of the adhesive remover, refer to the adhesive remover operator's manual.
- The electrode cannot be sterilized. Sterilizing the electrode may damage it.

**⚠ CAUTION**

**NE-090S1 disposable electrode**

- If the electrode looks abnormal, such as lead disconnection, use another one.
- Replace the electrode with a new one when the adhesive becomes weak.
- Do not alter the shape of the electrode. EEG may not be recorded.
- Make sure there is enough slack in the electrode lead. Otherwise the lead may get damaged or the electrode may come off.
- Black spots may appear on the silver surface of the electrode. These are caused by variation in the Ag and AgCl coating thickness and have no effect on the quality or performance of the electrode.
- When removing the electrode from the patient, remove it carefully and slowly from the edge. If you remove it forcefully, the skin may tear.

**NE-091S7 disposable electrode**

- Store the electrode with the silver film upward. If the package is tilted or upside down, the paste may flow and touch the tip of the electrode which may rust the metal parts on the head set.
- When using the electrode with the BE-090AS or BE-090AM head band, replace the electrode every 12 hours as a general guideline. Otherwise the paste will dry and correct measurement might be impossible. When using the electrode with the AE-120A head set, refer to the head set operator's manual for the maximum attachment time.
- After using the electrode, remove the paste from the scalp completely with dry cloth and wipe with cotton moistened with alcohol.

**⚠ CAUTION**

Do not attach the NE-091S7 electrode to the head band at a tilt. If it is tilted, the base of the electrode touches the scalp which may cause redness or skin irritation.

**⚠ CAUTION**

- Do not touch the adhesive surface.
- Do not pull the lead when removing the electrode from the gel cover. It may break the lead.

**⚠ CAUTION**

Dispose of Nihon Kohden products according to your local laws and your facility's guidelines for waste disposal. Otherwise, it may affect the environment. If there is a possibility that the product may have been contaminated with infection, dispose of it as medical waste according to your local laws and your facility's guidelines for medical waste. Otherwise, it may cause infection.

**⚠ CAUTION**

Handle the electrode under the specified environment. Otherwise the correct measurement data cannot be obtained.

This Safety and Performance Information is an extract from the general and safety information sections of the most recent edition of Operator's Manual or Installation Guide. Therefore, the contents of your Operator's Manual or Installation Guide may differ from those of this Safety and Performance Information. For detailed operating procedures, follow the instructions of your Operator's Manual or Installation Guide.

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