

# Self-Adhesive & Disposable Electrodes

## Data Sheet

ELECTRODES 18032021

### IMPORTANT NOTES

The present document provides the information about the technical characteristics of the Self-Adhesive & Disposable Electrodes provides with or sold for PLUX products incl. BITalino, biosignalsplux and physioplux kits.

All self-adhesive & disposable electrodes are based on the **Covidien Arbo™ H124SG Electrodes**. Based on supplier availability, these electrodes may also be provided with different branding names such as: **Kendal™ ECG Electrodes** or **Cardinal Health**. Images of the electrodes with different brandings are displayed below.



Fig. 1: Electrodes with Covidien branding.



Fig. 2: Electrodes with Arbo branding.



Fig. 3: Electrodes with Cardinal Health branding.

For further details on the H125SG Electrodes, please refer to the original datasheet:

[https://biosignalsplux.com/downloads/docs/datasheets/Covidien Disposable Electrodes \(H124SG\).pdf](https://biosignalsplux.com/downloads/docs/datasheets/Covidien_Disposable_Electrodes_(H124SG).pdf)

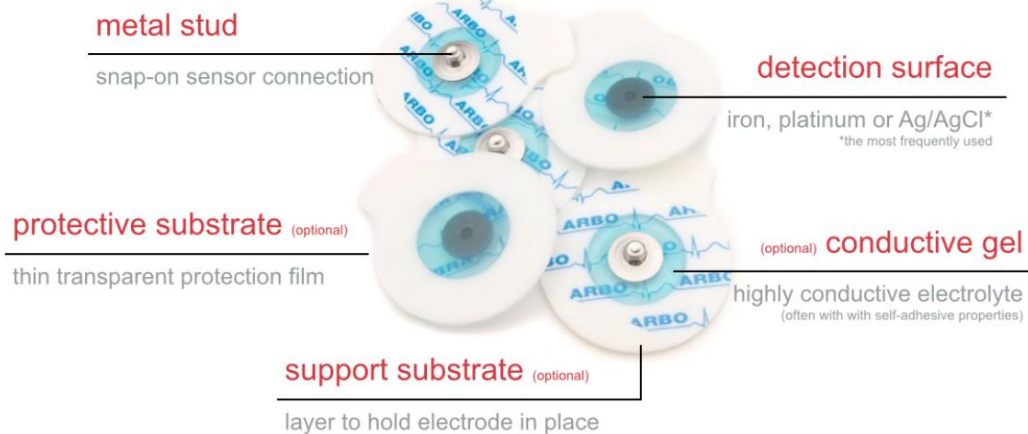


Fig. 4: H124SG disposable electrodes.



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### **BASIC PRODUCT INFORMATION**

- > **Electrode Size:** Round / Ø24mm
- > **Total Product surface:** 425mm<sup>2</sup>
- > **Gel area:** 201mm<sup>2</sup>
- > **Adhesive Area:** 251mm<sup>2</sup>
- > **Sensor Area:** 80 mm<sup>2</sup>
- > **Product Thickness (foam):** 1mm
- > **Connector:** Stud
- > **Color (Foam):** White
- > **Shelf-Life (originally sealed packaging):** up to 24 months @ 10-30°C
- > **Shelf-Life (open packaging):** 45 days or longer

Note: see also the section STORAGE INFORMATION for further information.

### **MATERIALS INFORMATION**

- > **Backing material:** Polyethylene foam (PE)
- > **Adhesive Characteristics:** Medical grade pressure sensitive adhesive
- > **Gel Characteristics:** Conductive and adhesive hydrogel
- > **Supporting / black label:** Polypropylene film (PP) transparent
- > **Release liner:** Polyethylene film (PE), one side siliconized
- > **Sensor (Stud Connector):** Polymer Ag/AgCl coated
- > **Adapter / Connector:** Stainless steel
- > **Biocompatibility:** DIN ISO 10993 test passed (tested by the original manufacturer)
- > **Latex Content:** None
- > **Halogenated Hydrocarbon Content (e.g. PVC):** None
- > **Phthalate Derivatives Content (e.g. DEHP):** None
- > **RoHS Directive Compliant:** Yes

### **COMPATIBLE WITH THE FOLLOWING SENSORS**

These electrodes are compatible with the following PLUX sensors of the BITalino, biosignalsplux, and physioplux product lines:

- > Electromyography (EMG)
- > Electrocardiography (ECG)
- > Electrodermal Activity (EDA)
- > Electroencephalography (EEG)
- > Electrooculography (EOG)
- > Electrogastrography (EGG)

### **APPLICATION NOTES**

General application notes are provided here; please refer to the individual sensor documentation for more detailed information about the correct sensor-specific electrode placements.

- > Always use new electrodes; do not reuse these disposable electrodes;
- > Do not use the same electrodes on different persons;
- > Clean the skin surface with an alcohol solution before applying the electrodes to remove dead skin cells, oils and to improve skin conductivity;
- > Do not apply the electrodes over damages skin
- > Do not apply the electrodes on the

### **STORAGE INFORMATION**

H124SG electrodes should be stored at a cool (10°C to 30°C) and dry place with no direct exposure to sunlight to ensure that the gel of the electrodes does not dry out.

For maximizing the shelf-life of open electrodes packs, fold over the opening of the electrodes packaging and place it in an airtight container. Alternatively, you may consider replacing the original open packaging with an resealable bag.

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### **DISCLAIMER**

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### **ORDERING GUIDE**

<b>Reference</b>	<b>Package Description</b>
870202113	Gelled Self-Adhesive Disposable Ag/AgCl Electrodes (Pack of 50)