About Linxens Healthcare

Linxens Healthcare leads the way in quality-driven product development in the connected health with biosensors, stick-to-skin wearables and traceability solutions.

Visit Linxens Healthcare website to discover our offers and get in touch with us!

BIOSENSORS

- Gold electrodes are widely used in electrochemical biosensors and physicochemical sensors due to their high conductivity and biocompatibility. Our electrodes are fully customizable, from design to materials.

Our roll-to roll manufacturing process enables scalability, economy of scale and reproducibility from batch to batch.

STICK-TO-SKIN WEARABLES

- We have a strong track record in delivering Remote Cardiac Rythm Monitoring patches and other medical grade patches.

We excel in selecting materials according to usage, in multilayer converting, in screen printing electrodes as well as in integrating sensors like liquid flow sensor and pH sensor for sweat or exudate monitoring.

TRACK&TRACE SOLUTIONS

- We supply HF and UHF RFID labels for tracing and authenticating consumables used in medical devices and diagnostic instruments.

Our services include in house inlay manufacturing, converting and RFID performance testing

About Linxens

For 40 years, Linxens has been a global player in the electronics industry, providing innovative, customized solutions to meet the most demanding technical specifications for **connectivity, tracking and authentication**.

Since its creation, Linxens has produced over 122 billion microconnectors for smartcards, more than 6 billion RFID antennas and more than 500 million biosensor electrodes.

566 M€
turnover in 2023

7
R&D Centers

8
production sites

Sales offices on every continent

3500+
employees

linxens.com

Visit our website **to discover our offers and get in touch with us!**

Linxens Healthcare

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Electrode platform for electrochemical analysis in clinical, environmental & industrial settings

For over four decades, Linxens has pioneered cutting-edge roll-to-roll processes to manufacture billions of flexible transducers. We leverage our high-scale microfabrication capabilities to deliver state-of-the-art, cost-effective and robust electrochemical platforms.

We ensure you a seamless transition from prototyping to mass production for fast go to market. Driven by our culture of customer centricity, we are committed to tailoring our solutions to your specific needs.

Linxens 3 Gold electrodes design

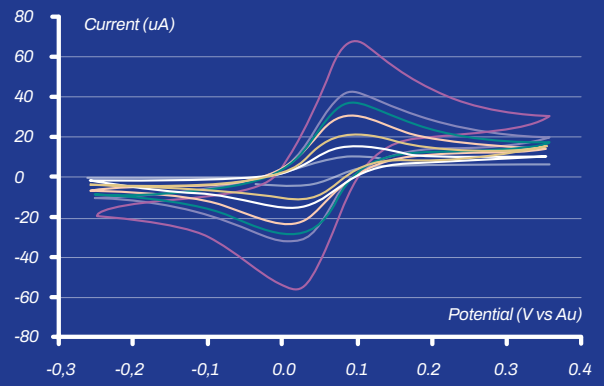
This design is compatible with PalmSens range of potentiostats. It is for Research Use Only, intended for early-stage product development. It is delivered in reel of 100 units.

PERFORMANCES

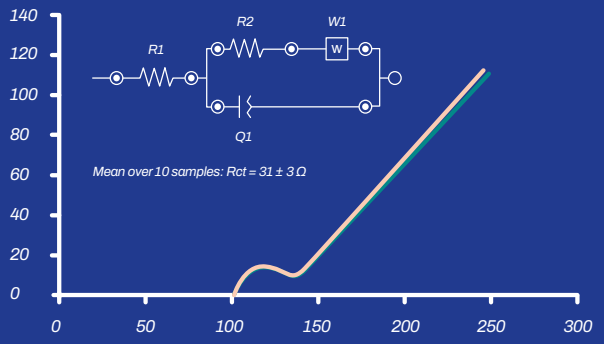
- Near Nernstian reversibility
- Low charge transfer resistance (Ohms range)
- Outstanding reproducibility (RSD max Ox current in CV < 2%)
- Soft gold plating finish (> 99% Au)
- Flexible substrate with roll-to-roll compatible mechanical properties
- Ready-to-use

For further information on the product, **please scan QR code**

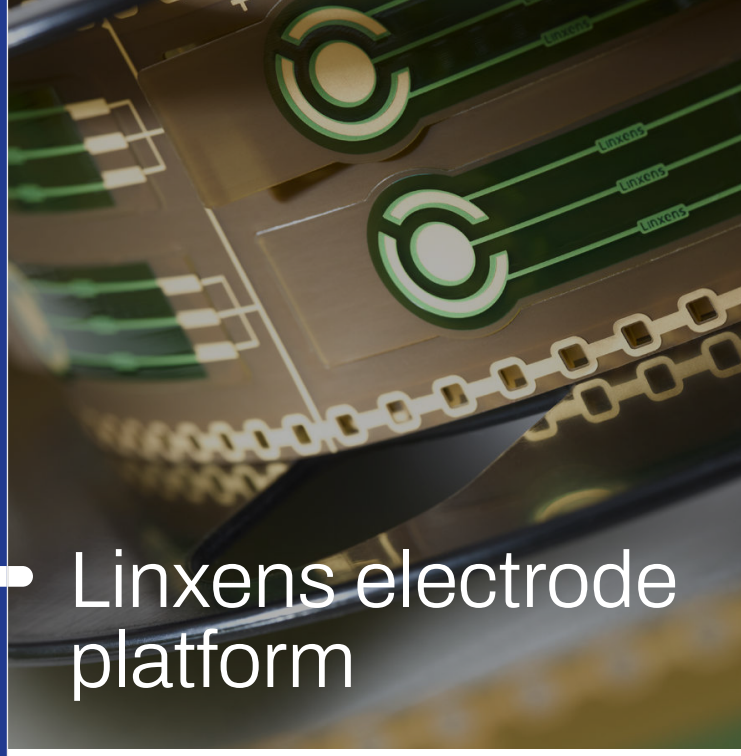
Electrochemical response in the presence of redox probes



Overlay of multiple Cyclic Voltammetry of FeMeOH (1mM in PBS) at different scan rates (from 10m to 500 mV/s).



Nyquist Plot (Electrochemical Impedance Spectroscopy) of K3[Fe(CN)6] + K4[Fe(CN)6] (5mM in PBS).



Linxens electrode platform

Materials can be customized to meet specific customer requirements such as solvent compatibility, operating time.

Our photolithographic processes enable the manufacturing of finely detailed custom designs down to **50 µm** resolution (track & gap), including **interdigitated, micro-array electrodes.**

Various electroplating finishes are offered, including **Platinum, Palladium, Silver, and Silver/Silver Chloride.** Electrodes can be functionalized with **Carbone-based materials, conductive polymers or reagents**. Converting capabilities enable the integration of dielectric, microfluidic, and stiffening layers if needed.

For further information, please contact Linxens' expert:

contact@linxens.fr