

# Lohmann – your partner for health patches

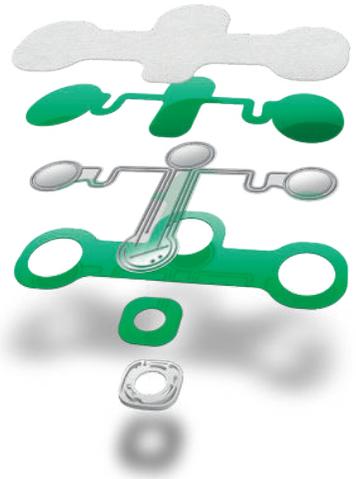


Lohmann's adhesive experts cover the entire value chain and enable customer-focused solutions. Founded in 1851, Lohmann is one of the pioneering forces in adhesive tape technology and is now active on a global scale. The adhesive tape manufacturer is headquartered in Neuwied, Germany.

Lohmann's Bonding Engineers, as a partner for the medical industry, offer a partnership at eye level, providing prototyping and production at different scales.

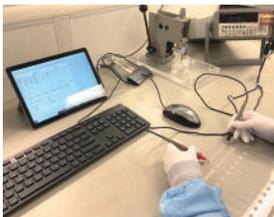
We offer deep vertical integration, encompassing material selection, processing, and packaging. Our streamlined processes allow for a short time to market, leveraging our established material and process toolbox. Moreover, our long-term experience in ensuring skin comfort is a valuable asset.

Quality assurance is vital to us, ensuring error-free and smooth functioning of your medical wearables. We maintain geometric tolerances in the micrometer range and focus on functional excellence.



Get more information

**From prototyping to full-scale production:  
We are your partner for design & manufacturing of medical wearables.**



## Product Development

- Functional Design
- Material decision
- Design for manufacturing
- Applied system testing



## Special Adhesives

- Low irritation
- High breathability
- New functional materials
- Material testing

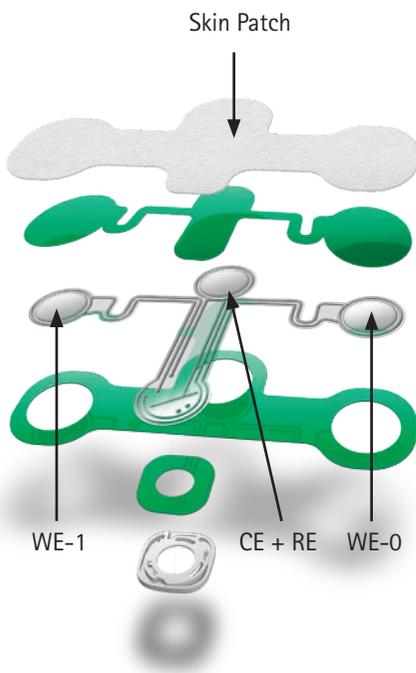


## Advanced manufacturing

- Certified production
- Adoptable volumes
- Implemented quality control
- International locations

# Skin impedance spectroscopy development patch

The patch is designed for a maximum wear time of 5 to 7 days (Lohmann DuploMED® 45150). Skin adhesives with longer wear times are available upon request. It is configured as a two-channel, two-electrode system, suitable for bio-impedance measurements. The second channel is connected to the left electrode (WE-1) and the center electrode (CE and RE), while the first channel is connected to the right electrode (WE-0) and the center electrode (CE and RE). The distance between the center of each electrode is 60mm. The electrodes adhere to the skin using an electrically conductive skin adhesive.



The user can choose the desired position for the patch on their body. The materials used in the patch offer excellent stretchability, allowing it to be applied to various body positions. To apply the patch to the skin, the first liner is removed and placed on the body. Then, the second liner is removed to ensure proper adhesion. Prior to application, the skin should be cleaned with water to remove creams, powder, and oils. It is highly recommended to shave the skin beforehand. When showering, the wearable should be removed, and the patch should be allowed to air dry for at least 1 hour. After applying the patch to the skin, a minimum waiting time of 10 minutes is required before applying stress. The maximum adhesion is achieved after 24 hours.



This is not a medical product. It is intended for technical feasibility test use only. GMSI (General Material Safety Indications) and RIS (Regulatory Information Sheet) are available on request.