

Electrode Technology & Expertise

2021

Company Overview



- Intelesens began operations in 2000 as Sensor Technology & Devices Ltd, a spinout company from the Ulster University in Northern Ireland, having specific expertise in the application of sensor technologies
- Based in Belfast, Northern Ireland, UK, the Intelesens site comprises of the R&D department, full production sites, logistics centre and customer service
- Professor John Anderson, was one of the founders of the company, and was responsible for the development of the world's first truly portable defibrillator for use outside of the hospital environment
- The Company established a leadership position within the medical sensor industry based on its physiological sensor design and development capabilities and unique manufacturing processes for many types of body worn sensors for high quality signal acquisition
 - Defibrillation pads
 - ECG Electrodes
 - EMG Electrodes
 - Screen printed electrodes



The Electrode Experts

- 20+ year design and manufacture of defibrillation and ECG electrode experience
- Experienced R&D engineers, production and quality team with in-depth understanding of the specific requirements for these types of electrodes
- Compliance specialists, we build the technical documentation and can either seek approval on your behalf or support your regulatory approval application.
- Offer a full suite service from concept through design to manufacture
- Our experience means that our designs put usability at the forefront of our products

Key company focus on obtaining bio-signals from the body using material and sensor technologies as a gateway:

- Cardiac rhythm
- Prediction of labor onset
- Hydration status derived from impedance measurements
- Emergency care



Full Electrode Range

Electrodes suitable for adults, children and aviation use.



Quality and Longevity

Quality products with up to 4.5 year shelf life.



Smart Design

Fast and easy handling with an out-of-pouch connection.



Excellent Trace Clarity

For optimised signal detection to the patient.

Flexible partnership approach with clients

- Experience working with both global multi-nationals and start up innovations
- Offer end-to-end solution from product design, through regulatory and production
- Consult on cost-saving measures to reduce production and material costs

Guaranteed quality products and services

- 4.5 + Year Shelf Life
- We put our experience into optimal design, supporting your user testing
- Internal material processing and selection for our electrodes enables an enhanced operational performance in relation to regulatory requirements
- Materials are chosen which comply with RoHS, REACH and Proposition 65

In-House Facility Capabilities and Compliance Standards

Key Capabilities

- Screen Printing Electrode manufacturing
- End to End product design & manufacture
- Ink & Electrode electrical characterisation
- ECG testing
- Life and Destructive testing

Quality Standards and Compliance

- Complying to ISO 13485:2016 Quality Management System
- Test facility suitable for testing to International requirements for medical electrodes



Service Provision Capabilities

Services	Concept to Custom Manufacture		
Research & Design	<ul style="list-style-type: none"> ➤ Concept Development ➤ Prototype ➤ Test 		
Regulatory Clearance	<ul style="list-style-type: none"> ➤ Concept Development ➤ Prototype ➤ Test 	<ul style="list-style-type: none"> ➤ Consultancy ➤ Technical File Build ➤ Regulatory Submission 	
Contract Manufacturing	<ul style="list-style-type: none"> ➤ Concept Development ➤ Prototype ➤ Test 	<ul style="list-style-type: none"> ➤ Consultancy ➤ Technical File Build ➤ Regulatory Submission 	<ul style="list-style-type: none"> ➤ Custom Manufacture ➤ OEM Manufacture

Manufacturing Suite



Concept Development

- Custom electrode concept development for stand alone electrode or system applications within the home and healthcare environment

Design

- CAD design
- State of art R&D suite
- Over 20yrs design expertise

Development Evaluation

- Concept validation
- Design validation

Contract Manufacture

- Fully accredited manufacturing suite
- ISO13485:2016 certified
- Custom production line design

Regulatory Expertise & Experience

- USA FDA
- CE Approval

Summary – Your Partner of Choice

World leading electrode supplier

- We have developed and manufactured for some of the largest electrode suppliers in the market
- Manufacturing and developing electrodes for our clients since 2000, we have become one of the leading suppliers of electrodes in the market

Cost effective and validated manufacturer

- We pride ourselves in delivering excellent electrode design, validated and cost-effective manufacturing processes

Flexible solution to meet your needs

- Whatever your requirements, we have extensive experience supported by accredited in-house facilities to provide an end-to-end solution for your customised electrode solution

Supplying the market to the highest quality standards

- Complying to ISO 13485:2016

Partner of Choice - Let us be your trusted partner in customised, bespoke electrode design, development and manufacturing