

# VITAL SIGN MONITORING

## Comprehensive health tracking - available from the hospital to anywhere

For decades, the use of technology to monitor vital parameters was limited to hospital settings with specialized equipment and trained personnel to operate. With the advancement of technology and miniaturization of sensors, it became possible to develop devices that could be used outside of a hospital setting.

Today, digital health devices have become an integral part of healthcare. They enable individuals to monitor their own health and wellbeing and provide healthcare providers with valuable insights that can inform treatment decisions and improve outcomes.

CSEM's DELTA technology platform is the culmination of a series of groundbreaking innovations: the first wrist-worn optical heart rate monitor (EP1297784B1), the first wearable fertility tracker and the first CE-approved continuous optical blood pressure monitor. DELTA can be worn in various places on the body.

**Jens Krauss**  
VP Systems • CSEM



## Medical technology products with CSEM technology

### ActiGraph for the clinical research

[www.theactigraph.com](http://www.theactigraph.com)

Clinical research often faces the challenge of not having enough fit-for-purpose, meaningful and patient-centered measurement data. ActiGraph aims to solve this with its end-to-end platform, which consists of medically certified hardware, software, and integrated algorithms, pioneering the digital transformation of clinical research

The latest generation of their hardware, the ActiGraph LEAP, will be launched at the end of November 2023.



## Ava fertility bracelet

[www.avawomen.com](http://www.avawomen.com)

The Ava bracelet uses state-of-the-art sensor technology together with clinically proven methods to pinpoint a woman's fertile days in real-time. It can also be used to improve sleep and fitness, and during menopause.

Based on CSEM technologies, Ava was launched as start-up in 2014.



## PulseOn complete arrhythmia monitor system

[www.pulseon.com](http://www.pulseon.com)

PulseOn is a complete cardiac rhythm monitoring system that is worn on the wrist. It is used to assist in the diagnosis, screening and monitoring of atrial fibrillation and other cardiac arrhythmias. The device monitors the pulse rate during motionless periods and allows the patient to take immediate ECG measurements.



## Lifestyle products with CSEM technology

### Tissot

[www.tissotwatches.com](http://www.tissotwatches.com)

The T-Touch Connect Solar by Tissot is a connected watch with an array of modern features and a solar-powered battery. CSEM helped develop the watch's ecosystem by creating a unique photovoltaic dial and providing expertise for a customized, ultra-low-power operating system.



### Festina

[www.festina.com](http://www.festina.com)

Festina Hybrid smartwatch, powered by CSEM vital sign algorithms. The connected proposals offer a series of intelligent functions to avoid over reliance on the smartphone both during training and in everyday life.



More Information



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