

Smart Footwear Sensing Solutions

Fit for wearable technology, protecting foot health

Our feet interact directly with the ground during everyday locomotor activities, generating measurable plantar pressure. This provides a wealth of information that is extremely useful for athletes or rehab patients, for instance. Measuring and tracking the right data helps boost sports performance, optimize podiatric medical monitoring, prevent injuries and assess risks for developing diseases early on.

IEE's smart footwear sensing solutions measure how the pressure is distributed on the sole of the foot/shoe when walking, running or jumping. From evaluating critical health metrics that help prevent injuries, manage risks, monitor the general wellbeing to increasing sports performance. Thanks to powerful electronics, the data is then sent for analysis to a remote receiver (smart phone, watch or computer).

Why choose our system?

- Thin and bendable, non-intrusive printed electronics
- Accurate and reliable measurement and analysis for gait and posture, supporting
 - Clinical purposes: rehabilitation, diagnosis of lower limb problems, specific footwear design, ulcer prevention for diabetics, improved balance and confidence for elderly people, etc.
 - Sports: biomechanics, therapy, injury prevention, training, etc.
- Flexible, cost-efficient, can be custom designed for specific applications and offers various integration possibilities



Product range

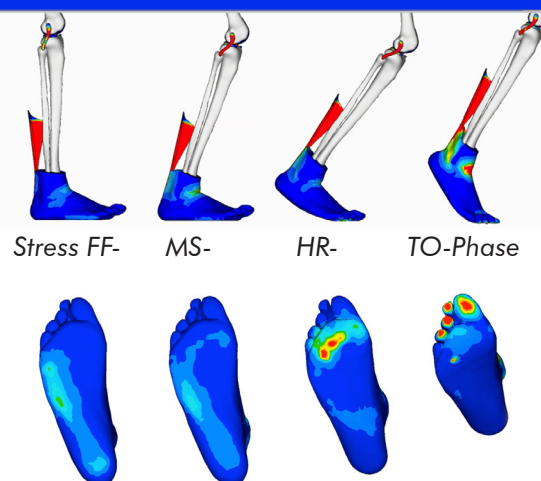
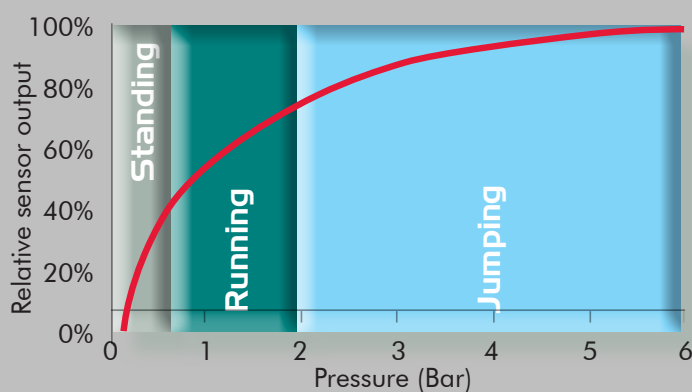
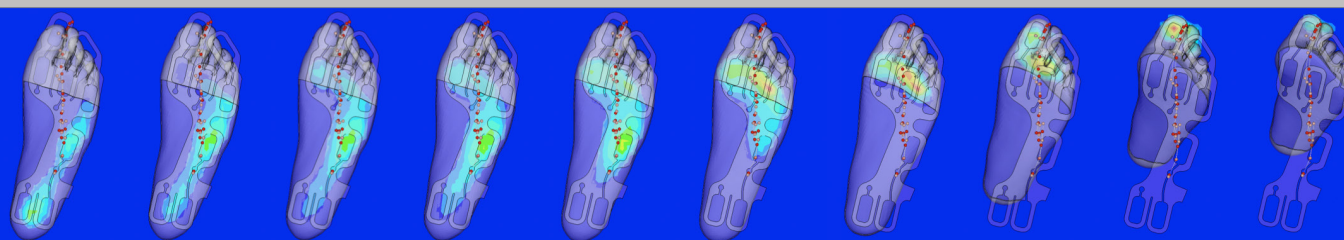
ActiSense Sensing System

All-in one solution for digitally connected wearables

- 8 individual high dynamic, new-generation pressure cells combined with powerful electronics and software
- Uses top notch pressure sensing technology combined with Inertial Measurement Unit (MU) data
- Performance tracking, reliable gait analysis and optimized patient care
- Used for removable insole applications
- Data Synchronization (between left and right foot and smart device)
- Real-time data display and personal data visualization
- Possibility to include SMD (surface-mount) thermistors and/or fuses



ActiSense



Need a customized solution?

If you want to talk about customization options, price, availability or other related to this product or work with us on the next project, drop us an email at medical@iee.lu.

About Us

IEE S.A. is a worldwide developer, manufacturer and supplier of advanced sensing solutions and electronics for the automotive, building security and management, sports and medical areas, and looking into broadening its sensors' offer for additional markets, industries and applications. Founded in 1989 and headquartered in Bissen, Luxembourg, the company has since expanded and runs operations in Europe, the U.S. and Asia. IEE employs over 4,100 people, with more than 10% of the company's workforce focused on Research & Development, working on uncovering the next technologies.