

Cleveland Medical Polymers

NanoSenSys™

Cleveland Medical Polymers' mission is to provide a user-transparent system for real life biotelemetry which greatly improves the quality of life and accuracy in all application areas that need vital signs and physiological monitoring. We accomplish this through the innovation, commercialization and manufacture of biosignal sensors, and sensor platforms. Our NanoSenSys™ sensor platform is a modular, customizable product that caters to a wide variety of user requirements for real time bio-monitoring enabling rapid clinical intervention. This is especially valuable for long-term, home-based observation of the elderly or disabled, in aiding the physicians or medical professionals with easy and accurate monitoring of vital bio signals for quick action as well as efficient use of their time. NanoSenSys™ also enables home-based testing and diagnosis of diseases such as sleep apnea, epilepsy, Alzheimer's etc. Besides medical applications, our networked sensor system is an effective tool for day-to-day health monitoring and sports applications, where data can be analyzed and accessed in real time by physicians or trainers.



The success of NanoSenSys™ hinges on its customizable modules - the first of which is our sensor - made from innovative polymer composites to be conformable, flexible, hard or soft, waterproof etc. Our revolutionary, patent-pending dry, non-contact sensor can be incorporated into a variety of user environments and can be engineered to be so comfortable that it goes un-noticed. The wide range of signals from our sensor is then handled by our proprietary interface - which has customizable filters and amplifiers designed for various target bio-signals. The high quality ultra-refined signals are then processed by our data transmission module which can handle many wireless protocols like Bluetooth®, WiFi™, RF etc. Our storage module stores the data in an effective format that is one step away from conforming to any of the standard formats (EMR, PHR etc) required by our customers. Our data acquisition and storage modules collect the transmitted data and store it either for further processing or for relaying to a point of use. For example, as part of our Vital Signs Monitoring application, our Dock2Doc™ system relays data to the physician's office for diagnosis and interpretation. The end use customization possibilities are endless due to the flexible architecture of NanoSenSys™.

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