

INNOVATIVE PRODUCTS FOR WEARABLE APPLICATIONS



Beyond changing our lives, wearables are impacting many industries and have raised the bar for quality and experience in consumer devices. Wearables involve new requirements for components in terms of miniaturization, rugged design, aesthetics, sensor integration, and more. The small form factor in particular presents a challenge to companies trying to put all components together in a smaller, slimmer, and smarter wearable device.

The expectation of connectivity anytime, anywhere drives the need for wearable products. And as TE sensor platforms bring wearable technologies to life, users become safer, more productive and healthier. To get powerful functionality to fit inside a watch or on a T-shirt, TE relies on cross-industry experience and an ongoing commitment to Research and Development. We can help you develop solutions for your wearable ideas.



ANTENNAS

Accommodate numerous sets of frequency bands for operation on most networks — in either regional or global markets



HUMIDITY SENSORS

Monitor local relative humidity or skin moisture (sweat), in altimeter and multi-mode watches as well as fitness bands. Control moisture levels in sleep monitoring treatments



BOARD LEVEL SHIELDING

Minimize crosstalk and reduce EMI susceptibility with a lightweight and thermally conductive solution offered in cold rolled steel and aluminum materials



POSITION SENSORS

Provide reliable and cost effective application solutions, such as, position sensors monitoring the location and motion of moving prosthetics



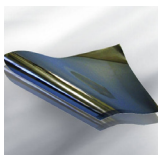
FORCE SENSORS

Measure dynamic and static loads on the prosthesis with a variety of standard products along with full custom designs for customer specific applications



PRESSURE SENSORS

Monitor altitude for devices such as diving watches, fitness bands and ski goggles with consumer wearable pressure sensors. Measure rapid altitude change if a patient falls to the floor and monitor inhalation and expiration cycles for sleep monitoring with medical pressure sensors.



PIEZO FILM SENSORS

Detect breathing, pulse and body movement for sleep and fitness monitoring with piezoelectric material



TEMPERATURE SENSORS

Offer a wide range of contact and non-contact temperature sensors from sensing elements of various technologies to added value probes. Helps meet the specific demands of temperature sensing in consumer applications such as fitness bands, sleep monitoring and vital signs monitoring.