

Medical solutions

In the medical arena sensor technology will play a major role in increasing safety and improving quality of life. Sensors can increase the intelligence of life-supporting implants and they can be used in new types of monitoring applications to support more independent lifestyles for patients. Identification of advanced symptomatic signals will, amongst other things, help prevent serious bouts of illness.

VTI's 3D MEMS sensors are ideal for medical purposes, thanks to the inherent accuracy, reliability, small size and low power consumption. For high volume OEM customers, VTI can supply both acceleration and pressure sensor elements for direct integration into customer electronics.

VTI has secured a strong foothold as a manufacturer and supplier of sensors for medical research and treatment equipment, as well as for instruments. The company is the leading sensor supplier for activity monitoring in cardiac rhythm management (CRM) applications.

In the future, sensors will be a major component that will enable the medical and health sector to move from a "treatment of illness" centric mode to a more pro-active role of promoting a healthy life style, a "wellness mode".

Cardiac Rhythm Management (CRM) Applications

Activity monitoring for adaptive cardiac pacemakers.

- Related products: Sensor element solutions.
Please contact [VTI sales](#) for further information.

Invasive Pressure Measurement Applications

Measuring of blood-, brain- or abdominal -pressure invasively, for example.

- Related products: Sensor element solutions.
Please contact [VTI sales](#) for further information.

Non-invasive Pressure Measurement Applications

Measuring of blood, eye pressure etc. non-invasively or measuring barometric pressure for reference purposes.

- Related products:
[SCP1000 Series pressure sensors](#)

Diagnostics and Treatment Equipment Positioning Applications

High precision positioning of equipment such as surgery tables, prostheses or medical imaging equipment.

- Related products:
[SCA100T Series inclinometer](#)
[SCA103T Series inclinometer](#)
[SCA61T Series inclinometer](#)
[SCA111T Series inclination module](#)
[SCA121T Series inclination module](#)

Patient Monitoring Applications

Monitoring of patient movement or position.

- Related products:
[SCA3000 Series accelerometer](#)
[SCP1000 Series pressure sensor](#)