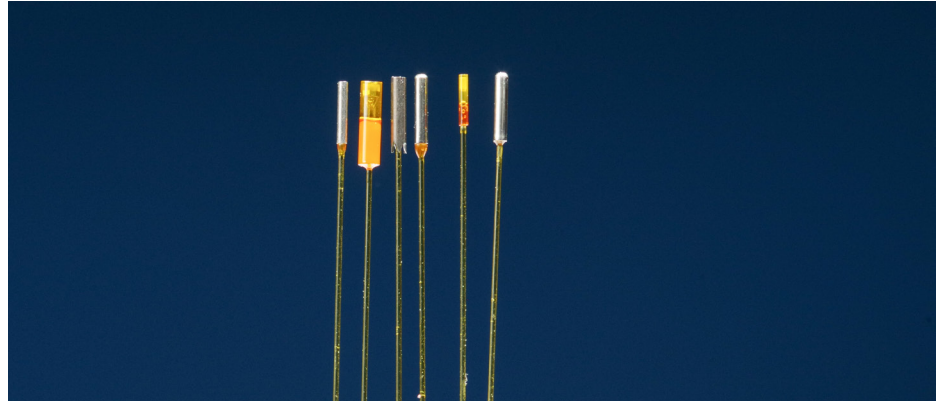


Fiber Optic Sensors

OUR STORY

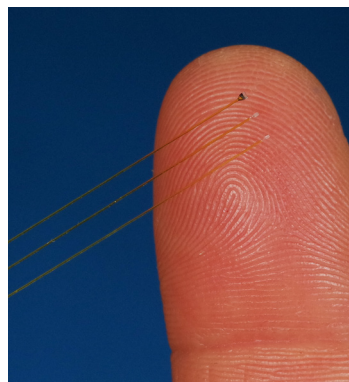
Resonetics is a leader in micro manufacturing for the life sciences industry. Our Lightspeed Application Development Labs are located strategically to serve MedTech companies around the world. The company is ISO 13485:2016 certified with facilities in the United States, Costa Rica, Israel and Switzerland.

Resonetics Quebec is a leader in Fiber Optic Sensing technology. Formerly Fiso Technologies, Resonetics Quebec has over 25 years of experience in fiber optic sensors for medical device. Over 2 million sensors have been sold, and our fiber optic sensors are implemented in 15+ FDA approved medical devices.



About Fiber Optic Sensors at Resonetics

We provide leading-edge fiber optic development capabilities and advanced manufacturing experience to support high-volume production of complex fiber optic products for the medical device and energy markets. Resonetics Fiber Optic sensors provide reliable solutions for measuring parameters such as pressure, temperature, force, displacement, and position.



Applications

- Cardiovascular: LV pressure, arterial BP
- Circulatory support: LVAD, RVAD, ECMO
- Pharmacology: Drug and Fluid injection
- Neurosciences: Intracranial pressure
- Spine/Bones: Intradiscal/Intramedullary pressure
- Urology: Bladder/Ureter pressure
- Ophthalmology: Intraocular pressure
- Respiratory / Pulmonology

Development Kit

The development kit (SKR-DEV) is designed for OEM testing, prototype integration, and firmware development.

Key Features

- Low heat emitted from LED light source
- Atmospheric self-compensation available
- LED technology: lifetime greater than 20000 hours
- Full bandwidth via analog output connectors
- Up to 3 channels



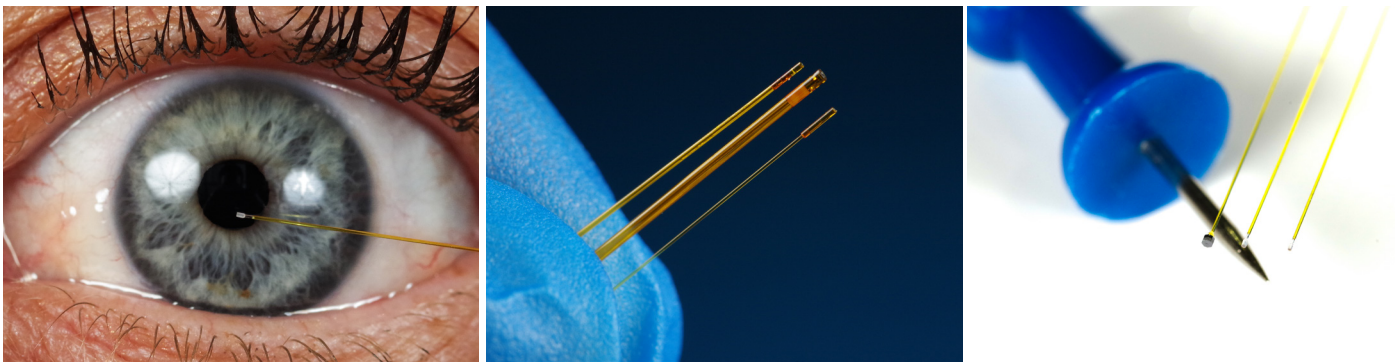
Fiber Optic Sensors

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Capabilities & Features

Rely on our leading edge technology and product development capabilities combined with the quality of our technical expertise - a team of experienced engineers and technicians.

- Multiple robotic sensors' assembly lines for high volume production
- Cleanroom space for prototyping and pilot building for production
- Engineering team experienced in producing products used in FDA approved devices
- In-house experts in electronics, physics, chemistry, and optics
- Stringent regulatory compliance and industry best practices insure quality
- Partnership with world leading universities, institutes and research centers



Advantages

Fiber Optic sensors offer significant advantages over traditional solid-state technology

- Extremely small size, flexible, and kink resistant; highly suitable for minimally invasive disposable devices'
- Fully immune to interference from RF, MW and MRI systems
- No electrical components and zero electromagnetic emissions
- High frequency response and instantaneous readout to avoid signal attenuation and improve detection of transients
- Extremely accurate in situ measurements of any physiological event

