



RESONETICS®

# 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 market. Resonetics® Fiber Optic sensors provide reliable solutions for measuring parameters such as pressure, temperature, force, displacement, and position.

## Applications

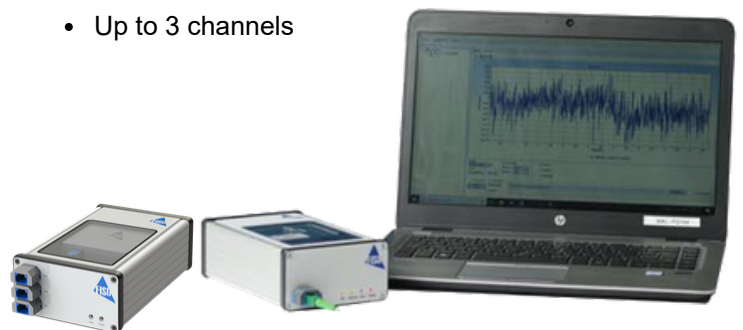
- Cardiovascular: LV pressure, arterial BP
- Circulatory support: LVAD, RVAD, ECMO
- Pharmacology: Drug and Fluid injection
- Neurosciences: Intracranial pressure
- Spine/Bones: Intradiscal/Intramedullary pressure
- Urology: Bladder/Ureter pressure
- Ophthalmology: Intraocular pressure Respiratory /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

## Development Kit

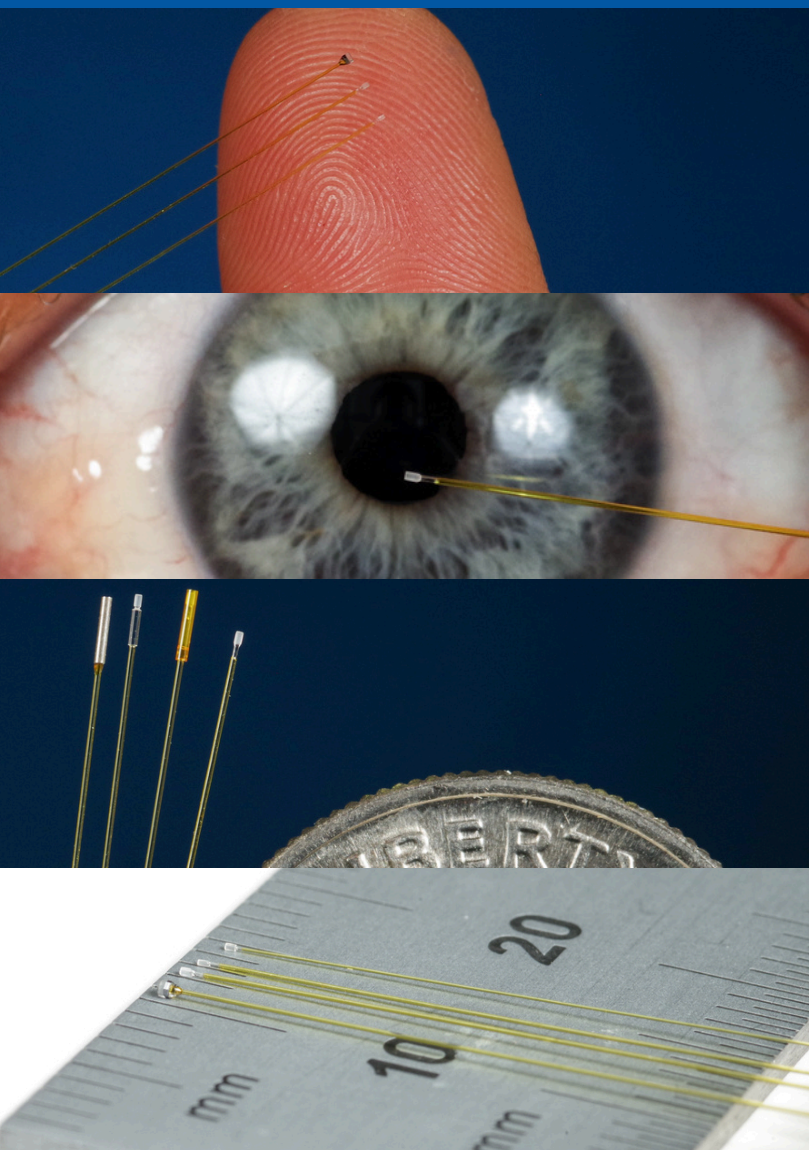
The development kit (SKR-DEV) is designed for OEM testing, prototype integration, and firmware development.

## 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



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## Capabilities & Features

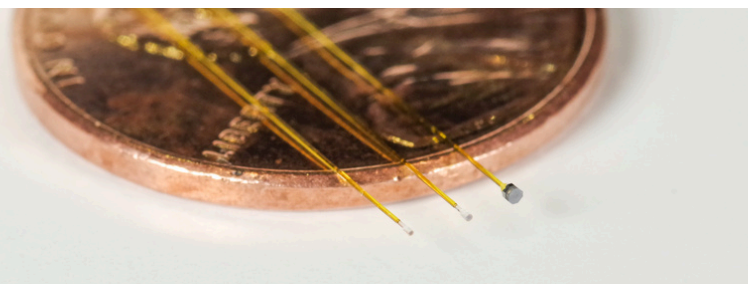
Rely on our leading edge technology and product development capabilities combined with the quality of our technical expertise - a team of experienced engineers and technicians.

- 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



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Resonetics.com