

Product Datasheet – Preliminary

Tactile Tonometer TT001

General Description

The EPVSensors' TT001 is an intraocular pressure tonometer for home use. It operates on the principle of tactile sensing and measures the internal pressure of the eye by lightly touching it through the eye lid. Through a patented algorithm and design, the TT001 collects ultra-fast force recordings from multiple contact points and automatically produces an indication of the intraocular pressure on its LCD display.



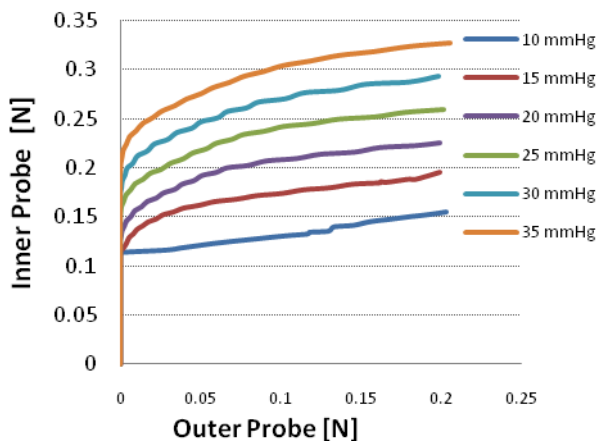
Sensor Characteristics

An example of sensor calibration curve set is shown below. An inner and outer probe set measures the applied force onto the eye and produces a different curve based on the intraocular pressure. The accuracy of the probe is estimated at 1 mm Hg of IOP.

Applications

- Glaucoma screening
- Glaucoma management as it allows daily measurements
- Can be used on patients with thickened cornea due to corneal diseases or other eye conditions, or in the presence of a keratoprosthesis
- Monitoring operation of eye drainage implants eliminating the need for frequent trips to the professionals.

Sensor Response to Different IOP Levels



Features

- Non-invasive measurement allowing home use
- No anesthetics required
- Reduced probability of eye infection
- Morning evening or at night
- Remote data storage and the ability of remote transmission to the healthcare professionals.