

Technical Specification for Pulse Wave Tonometer

Quantity: 5

Description: The pulse wave tonometer is a high-precision sensor for accurate measurement of arterial blood pressure waveform from superficial arteries using the principle of applanation tonometry. Owing to the very precise and fragile nature of the tonometer, the devices tend to lose sensitivity in about a year or two of heavy use. Given the extensive research activities planned in the project, it is required to procure 5 no.s of this probe.

Technical Specifications:

- A validated Pulse Wave Tonometer sensor / probe for measurement of blood pressure using applanation tonometry to be provided.
- The device should be a hand held wand probe equipped with Mikro-Tip pressure sensor at the tip and which can non-invasively record pressure contours
- The device should have high frequency response to ensure accurate reproduction of pulsatile waveform.
- The tonometer probe should have a diameter of ¼ inch and length of 6 inch
- The tonometer probe body should be made with stainless steel.
- The cable length should be 150 cm and which should be able to connect with AD instruments Bridge Amp.
- Accessories for capturing the raw analog signal from the tonometer to be specified along with supply, with detailed engineering specifications such as connection diagrams, connector pin configurations and wiring diagrams required to connect the tonometer to any generic data acquisition system
- Warranty: As per standard terms offered by company

- In addition to the above, the Pulse Wave Tonometer supplied should conform to the detailed specifications as listed in the table below.

Length	6 inch
Pressure range	0 to +300mmHg (0 to 40 kPa)
Overpressure	+4000 mmHg (+530 kPa), -760 mmHg (100 kPa)
Sensor Sensitivity	5 μ V/V/mmHg, nominal (37.6 μ V/V/kPa)
Pressure Connector	Viking
Material	Stainless Steel
Tip	Nylon
Sensor Sensitivity	1/4" Diameter
Number of Sensors	1
Use Life	Reusable - Non-Sterile
Repair Life	Minimum 3 years