

Technical Specification for Dual Pressure catheter

Quantity: 4

Description: A pressure catheter is used for precise measurement of blood pressure values and waveform, invasively inside an arterial flow phantom or inside the artery of an animal or human being. These are made with high precision and are extremely sensitive and hence tend to lose their sensitivity after about a year of heavy usage. Given the extensive research activities planned in the project, it is required to procure 4 no.s of such catheters as per the following specifications. A dual pressure catheter will integrate two pressure sensors at the tip of the catheter and can provide dual channel pressure waveforms needed for measurement of local pulse wave velocity

Technical Specifications:

- The catheter should be made of Polyurethane – Woven Dacron
- The pressure catheter should be able to measure left ventricle and aortic pressures in small and large animals.
- The catheter should have straight tip and an effective length of 120- 135 cm and two low profile connectors (one for each pressure).
- The catheter should also have a facility to connect with AD instruments bridge Amp. The catheter should be reusable and repaired.
- Accessories for capturing the raw analog signal from the catheter 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.

- In addition, the dual pressure catheters supplied should also conform to the detailed specifications and quantity as follows:

Sensor type	Size	Catheter tip	Sensor separation distance	Length (cm)	Material	Quantity
Dual	2.5F	Straight	5 cm	135	PU	1
Dual	2.5F	Straight	2.5 cm	135	PU	1
Dual	5F	Straight	3 cm	120	PU/WD	1
Dual	5F	Straight	3 cm	120	PU/WD	1