

Calibrating the 1.6f solid state blood pressure catheter.

Setup

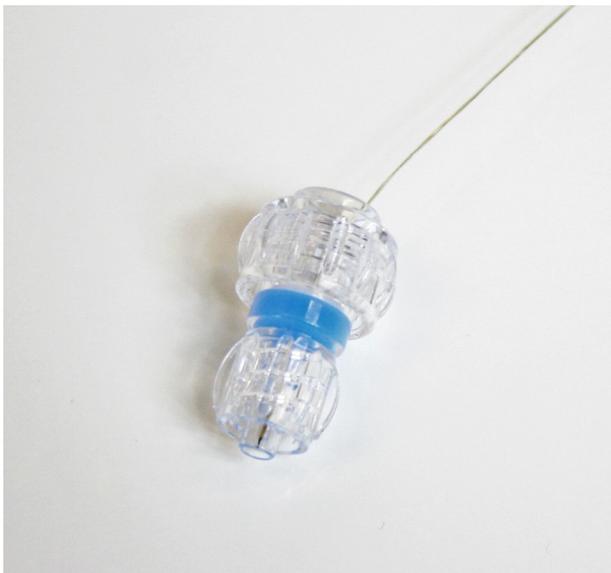
Calibration video is available at: <https://youtu.be/6kIBLKmijwE>

Calibration accessories required:

- 1) BP-Cal-Kit, with the male luer plugged into the black tube.



- 2) Tuohy Borst Adaptor:



TechNote Calibrating A-BP-CATH-16

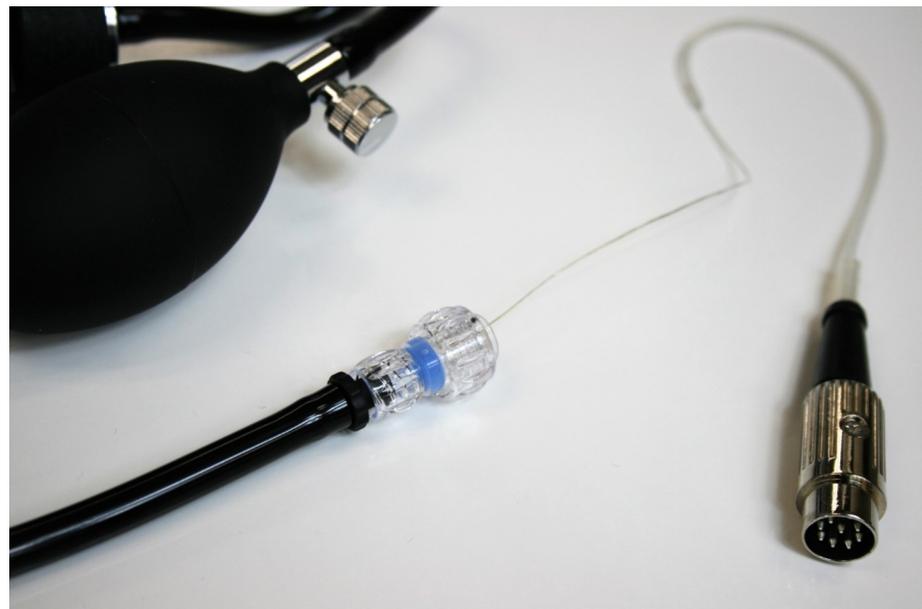


Tuohy Borst Adaptor has a hole in it, the Size of the hole can be changed by twisting the barrel.

Insert the Catheter into the Tuohy Borst Adaptor, such that the tip of the catheter is just inside the male luer connector as shown in the above picture.

Twist the barrel to tighten the adaptor around the catheter.

Connect the Female Luer of the BP-CAL-KIT to the male Luer of the Tuohy Borst Adaptor.

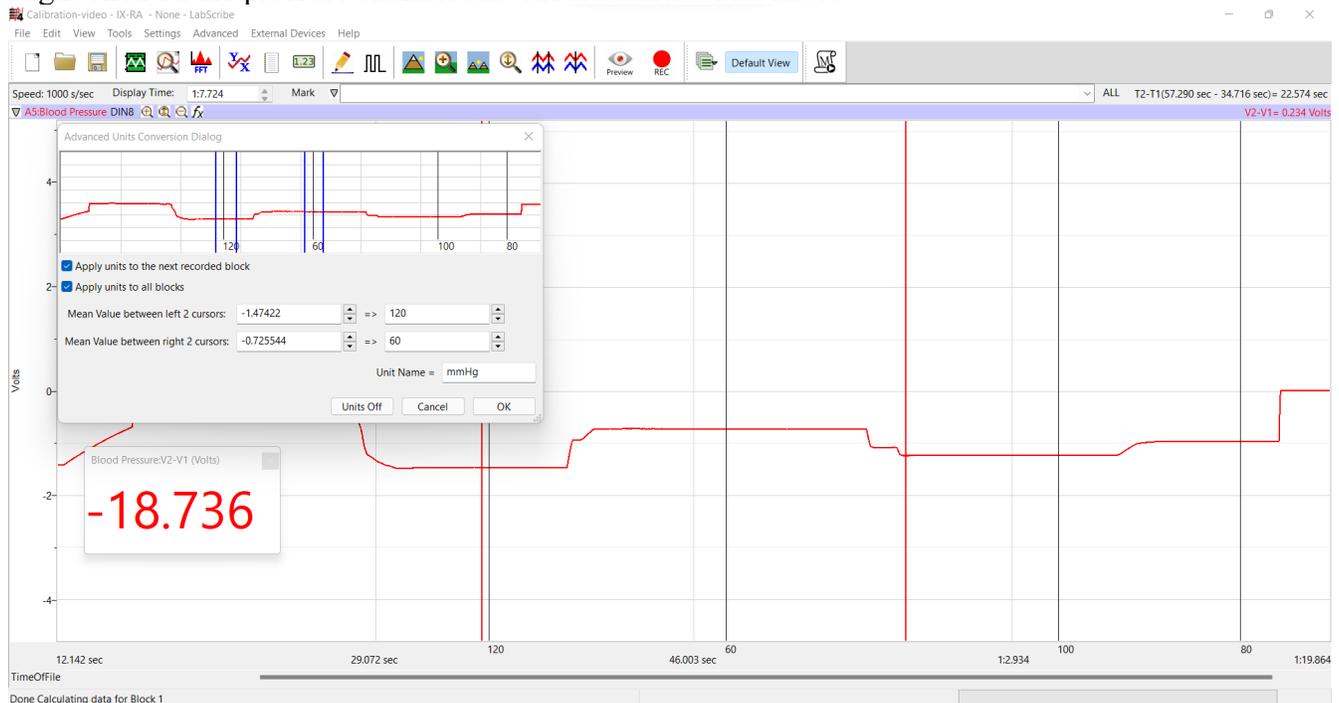


Connect the catheter to the extension cable and plug it into the iWorx Recorder.

Calibration

- Start LabScribe and set it up to record from the catheter.
- Increase the pressure, using the bulb to 120 mmHg. Hold the pressure steady for a few seconds.
- If the pressure does not hold steady, tighten the Touhy Borst adaptor.
- Mark the record in LabScribe with "120 mmHg"
- Decrease the pressure, using the bulb to 60 mmHg. Hold the pressure steady for a few seconds.
- Mark the record in LabScribe with "60 mmHg"
- Increase and mark the pressures at 80mmHg and 100 mmHg, we will use these value to verify the calibration.
- Stop recording.

Right click on the pressure channel and choose Units→Advanced.



In the Advanced Units dialog,

- place the left 2 cursors over the region that corresponds to 120mmHg.
- place the right 2 cursors over the region that corresponds to 60mmHg
- Check the Apply units to the next recorded block
- Check the Apply units to all blocks. This will apply the units to channel on all the previously recorded blocks
- Set the values in the right side text boxes to 120 and 60
- Set the units to mmHg.
- Click OK.

The Channel is now calibrated to read in mmHg. Check the 80mmHg and 100mmHg values.