

## **ABSTRACT**

*A sphygmomanometer is an instrument used to measure blood pressure. Suction Pump is a tool used to suck various types of liquids. In a hospital environment or in an environment related to health, the intended fluid can be blood, saliva, pus, mucus or various types of fluids formed from the body's secretory processes which under certain conditions need to be removed or cleaned. DPM (Digital Pressure Meter) is a tool to calibrate Sphygmomanometer and Suction Pump. Therefore, a calibrator is needed to calibrate the two tools. Based on the chronology above, the author will analyze the design accuracy of a dual pressure calibrator (+ and -) which can be used for two devices at once, namely sphygmomanometer and suction pump using one sensor, namely the PSS-C01V-R18 autonics sensor. In this study, positive and negative pressure measurements were carried out at the same time with this autonics sensor and the results obtained were accurate in accordance with the results of standard tools. It can be concluded that the autonics sensor can be used as a dual pressure calibrator.*

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**Keywords:** *Sphygmomanometer, Suction Pump, Autonics Sensor PSS-C01V-R18, Dual Pressure*