

ABSTRACT

Calibration is a technical activity consisting of the determination, determination of one or more of the characteristics and characteristics of a product, process or service in accordance with specified procedures. The purpose of calibration is to guarantee the measurement results in accordance with national and international standards. Digital Pressure Meter (DPM) are tools used to determine positive and negative pressure (vacuum). Using the MPX 5050GP sensor as a positive pressure sensor. Requires a maximum pressure of 300 mmHg. This tool is also equipped with a SD Card as external storage. The display used in this module is the 16x4 LCD (Liquid Crystal Display). After conducting measurements of the three comparisons consisting of Multifunction, DPM and mercury tensimeter to 6 times, the smallest result 0 mmHg and the largest results 249.02 mmHg. While the error in mercury tensimeter's of leak test to module and rigel is 1.3% and 0.7%. Based on the measurement results at a pressure of 0 to 250 mmHg, the module with the GEA Medical ML-2001 sphygmomanometer has an accuracy rate of 99.35%, while the module with the Rigel Medical UNI-SIM has an accuracy rate of 98%.

Keywords: *Gauge, Digital Pressure Meter, SD Card Memory*