

ABSTRACT

Calibration is a technical activity which consists of determining, determining one or more properties or characteristics of a product, process or service in accordance with specified special procedures. The purpose of calibration is to guarantee the measurement results in accordance with national and international standards.

Digital pressure meter (DPM) Vacuum pressure is a calibration tool used to determine pressure. In the following modules have a range of 0 mmHg to -300 mmHg pressure is also equipped with a hold button and the conversion selection using units Kpa and mmHg. The display used in this module is 2x16 LCD where the whole programming using arduino uno R3.

After going through the process of measuring and calibrating the value of uncertainty and error is low enough for the value of uncertainty obtained from the calibration of Health Facilities Safety Center (BPFK) worth less than 0.25 mmhg for the value rise and less than 0.28 mmhg to go down, while for Error less than 0.62 mmhg for value up and down. Data obtained from Digital Pressure meter calibration ratio (DPM) at Health Facility Monitoring Center (BPFK), and battery life data used with measurement is 4 days (96 hours)

Keywords: *Calibration, Pressure Vacuum, Pressure Positive*