

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.

Two Mode Digital Pressure Meter (DPM) equipped with Thermohygrometer and Pressure Selection 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. Using a DHT 22 sensor for humidity temperature. This tool is also equipped with a leak test timer. The display used in this module is the 2.4-inch Nextion TFT LCD

After measuring the mercury tensimeter as much as 6 times, the smallest result is 0 mmHg at 0 mmHg and the biggest is 298.0 mmHg at 300mmHg. Based on data retrieval of humidity temperature carried out in the room obtained 31°C at temperature and 87% at humidity.

Keywords: Calibration, Tensimeter equipped with humidity temperature.