ABSTRACT

Weather and air quality in active mountain becomes a thing to note. especially on the attraction of Mount Maras. to anticipate the ever-changing weather fluctuations from time to time and from place to place, weather measuring equipment is needed and the person performing the measurement. The downside of the method is the measurement results greatly depend on the observer.

It is not much different from the way the weather parameter measurement and air quality at Tangkuban Perahu Mountain, where weather and air quality will determine the safety and comfort of the tourists who visit, and also it is required for the purposes of monitoring the active volcano. In the implementation, there are several important parameters needed, including wind speed and direction, rainfall, temperature, humidity, air pressure and air quality parameters. Measurement of quantities are normally carried out in climatological stations.

The Telemetry Observations Weather and Air Quality in Tangkuban Perahu Mountain that was designed and conducted this test already has a fairly stable accuracy, for temperature sensor has a average error is 0.98%. Wind speed sensor has a average error is 10,88%. for maximum distance telemetry distance of the experimental results is 7 km to the overall condition of the data can be received, and > 7.5 km of data already started missing.

Keywords : Telemetry, RF Module, Active Volcano.