

Measuring the relative humidity within an error of 0.1% by Arduino

MATSUO, Ryo^{1*} ; SAKAI, Satoshi¹

¹Graduate School of Human and Environmental Studies, Kyoto University

It is said that the forest is cooler than the city. We measure the temperature and relative humidity at Kyoto University and Mt.Yoshida to find what causes the difference.

We used humidity and temperature sensor IC within an error of 0.1 percent.

We found that always forest is cooler and wetter than city. However the latent heat of vaporization of water did not cool the air on a day change.

Keywords: relative humidity, tempature, measure, Arduino, Forest and City