



I. Introduction

Humidity is the water vapor contained in the air at a particular temperature. The measurement of the quantity of water vapor is made using different types of devices such as wet and dry bulb, hair or cellulose hygrometers [1], thin-film capacitance hygrometers [2], and relative-humidity (RH) sensors. A second class of humidity-measuring devices is based on dewsignitr(DPC setisous Redding) includes the solution-conductivity-type hygrometers and condensation on chilled-surface-type hygrometers [3], [4]. This last measuring technique is particularly interesting because of the range (

 $T_{\mathrm{DP}}=[200;365]\mathrm{K~RH}=[1;100]\%)$ and inaccuracy ($arepsilon_{\mathrm{TDP}}=[0.2;0.4]\mathrm{K}, arepsilon_{\mathrm{RH}}=1\%$ for $\mathrm{RH}=[20;90]\%$).

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