

## Certificate of Humidity Calibration

**Nbr 27019**

**Model** MP101A-C4                      **SN** 41994

**Laboratory Conditions:** 24.0 Deg C    34.0 %RH

This instrument was placed in a ventilated tunnel having a minimum air velocity of 180 Ft/min. and calibrated against two reference instruments.

Calibration of the reference instruments was both with saturated salt solutions and with a certified chilled mirror instrument (Model: Model 973, S/N 06-0808), traceable to the National Institute of Standards and Technology (NIST) via report number 2008.23011. A certified thermometer (Model 1529-R/5614, S/N A38490/640981) traceable to NIST via report number A8124023/A8122078 was used to monitor temperature. The % RH values of the saturated salt solutions were taken from the tables published by the National Bureau of Standards (now NIST), L. Greenspan, Journal of Research, Vol. 81A, and January – February 1977. Details regarding calibration with saturated salt solutions may be found in ASTM standard E104-85.

Based on the above procedures, the accuracy of this instrument has been found to be as follows:

Reference %RH	Reading %RH	Correction %RH
0.3	0.3	0.0
35.0	35.0	0.0
80.0	80.0	0.0

By:   
Rotronic Instrument Corp

Date 1/27/2009



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## Certificate of Temperature Calibration

Nbr: 27019

Model MP101A-C4                      SN    41994

Laboratory Conditions:    24.0 Deg C            34.0 %RH

In reference to the values published in standard DIN 43760, the manufacturer of the Pt100 RTD used in this instrument has specified a maximum tolerance of +/- 0.2 Deg. C, both at 0 and 100 Deg. C.

The measuring circuit of this instrument has been electronically tested with a Pt100 simulator with an accuracy of 0.1% in reference to the values of standard DIN 43760. This instrument was also placed in a ventilated tunnel having a minimum air velocity of 180 Ft/min. and calibrated against a certified thermometer (Model number 1529-R/5614, S/N A38490/640981) traceable to the National Institute of Standards and Technology via report A8124023/A8122078.

Based on the above procedure, the accuracy of this unit had been found to be as follows:

Simulator:	Reference	Reading	Correction
Deg C	-25.0	-25.0	0.0
	0.0	0.0	0.0
	25.0	25.0	0.0
	50.0	50.0	0.0
Thermometer:	25.9	25.9	0.0
Deg C			

By:

*Mary Boney*  
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Date    1/27/2009