

# Certificate of Humidity Calibration

Nbr 33778

Model MP101A-C4 SN 41992

Laboratory Conditions: 23.0 Deg C 45.0 %RH

This instrument was placed in a ventilated tunnel having a minimum air velocity of 180 Ft/min. and calibrated using procedure C\_Proc\_101.02 against two reference instruments. Calibration of the reference instruments was performed with both saturated salt solutions and with a certified chilled mirror hygrometer traceable to the National Institute of Standards and Technology. A certified thermometer traceable to NIST 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
0.38	0.63	-0.25
35.01	35.06	-0.05
80.01	79.80	0.21

Reference Instrument	S/N	Cal Date	Recal Due	Report Number
973 Hygrometer	11-0804	11/20/14	11/20/15	12490
5611A Thermistor	111032318	9/5/14	9/5/15	B4828060
1504 Readout	B51968	5/21/15	5/21/16	B5521057

Comments/Exceptions:

By: Mary Boney  
 Rotronic Instrument Corp

Date 9/4/2015

# Certificate of Temperature Calibration

Nbr: 33778

**Model** MP101A-C4                      **SN** 41992

**Laboratory Conditions:** 23.0 Deg C      45.0 %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  $\pm 0.2^{\circ}\text{C}$  at -100, 0, and 100°C.

This instrument was placed in a ventilated tunnel having a minimum air velocity of 180 Ft/min. and calibrated against a certified thermometer traceable to the National Institute of Standards and Technology.

Based on the procedure describe in C\_Proc\_101.02, the accuracy of this unit had been found to be as follows:

	Reference	Reading	Correction
<b>Thermometer:</b> Deg C	24.34	24.37	-0.03

Reference Instrument	S/N	Cal Date	Recal Due	Report Number
973 Hygrometer	11-0804	11/20/14	11/20/15	12490
5611A Thermistor	111032318	9/5/14	9/5/15	B4828060
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