ROTRONIC Instrument Corporation
Suite 150
135 Engineers Road
Hauppauge, NY 11788
Phone: 631-427-3898
Fax: 631-427-3902

rotronic

Certificate of Humidity Calibration

Nbr: 29014

Model MP101A **SN** 41992

Laboratory Conditions: 22.0 **Deg C** 40.0 **%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
0.5	0.5	0.0
35.0	35.0	0.0
80.1	80.1	0.0

Reference Instrument	S/N	Cal Date	Recal Due	Report Number
973 Hygrometer	06-0808	4/7/10	4/7/11	8261
5614 PRT	640981	3/17/10	3/17/11	B0315067
1529-R Thermometer	A38490	3/16/10	3/16/11	B0318049

Comments/Exceptions:

By: Gary Boney
Rotronic Instrument Corp

Date 7/14/2010

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Certificate of Temperature Calibration

Nbr: 29014

Model MP101A **SN** 41992

Laboratory Conditions: 22.0 **Deg C** 40.0 **%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°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 described in C_Proc_101.02, the accuracy of this unit had been found to be as follows:

	Reference	Reading	Correction
Thermometer: Deg C	24.5	24.5	0.0

Reference Instrument	S/N	Cal Date	Recal Due	Report Number
973 Hygrometer	06-0808	4/7/10	4/7/11	8261
5614 PRT	640981	3/17/10	3/17/11	B0315067
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