

Certificate of Temperature Calibration**Nbr: 26428****Model** MP101A-C5 **SN** 41993**Laboratory Conditions:** 24.0 Deg C 38.0%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 A5A25096/A5A18015.

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:			
Deg C	24.8	24.8	0.0

By Mary Boney
Rotronic Instrument Corp

Date 8/13/2008

Certificate of Humidity Calibration

Nbr 26428

Model MP101A-C5 SN 41993

Laboratory Conditions: 24.0 Deg C 38.0%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: M1 1311DR-SR, S/N 1700992), traceable to the National Institute of Standards and Technology (NIST) via report number 32122. A certified thermometer (Model 1529-R/5614, S/N A38490/640981) traceable to NIST via report number A5A25096/A5A18015 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 8/13/2008