

Kestrel[®] Pocket Weather[®] Meters
Certificate of Calibration – Relative Humidity

Order #: 0123456 Customer #: JOE01 Instrument: Kestrel 5000 Environmental Meter Instrument Serial No: 1234567 Calibration Date: 1-Oct-16	Customer PO#: PO243 Customer Name: Joe Kestrel Manufacturer: Nielsen-Kellerman Impeller Serial No: IMP 7894561 Recalibration Due: 1-Oct-17 12 Months
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The above designated instrument was calibrated on the date shown in direct comparison to an Edgetech Dew Master Standard Chilled Mirror Hygrometer, Serial Number 2A4411X. The Standard Hygrometer is traceable to NIST (National Institute of Standards and Technology) and was last calibrated on 11-Dec-2015 Test Report Number 2015.11121. The Standard's maximum combined uncertainty is $\pm 0.050\%RH$. The procedures used for calibration conform to ASTM Publication #E104, Standard Practice for Maintaining Constant Relative Humidity by Means of Aqueous Solutions.

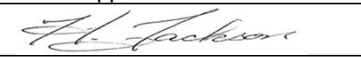
The Kestrel 5000 Environmental Meter

has a published Relative Humidity accuracy of \pm 2% in the range of 10 to 90%, 25 °C

Point	Reference	Acceptable Limits	DUT as Found	Difference
1	32.8 %RH	29.8 to 35.8 %RH	34.2 %RH	1.4 %RH
2	75.3 %RH	72.3 to 78.3 %RH	72.1 %RH	-3.2 %RH
Point	Reference	Acceptable Limits	DUT as Left	Difference
1	32.8 %RH	29.8 to 35.8 %RH	32.9 %RH	0.1 %RH
2	75.3 %RH	72.3 to 78.3 %RH	75.0 %RH	-0.3 %RH

NOTES:

- Calibration was performed in a temperature-controlled chamber maintained at 25° C. Nominal time at each calibration value was 1 hour.
- Problems noted:
 - Instrument was received **in** tolerance for Relative Humidity.
 - Instrument was received **out of** tolerance for Relative Humidity.
 - No change was made to instrument.
 - Instrument was recalibrated per manufacturer's protocol.
- The *maximum* recommended recalibration interval is 24 months. This instrument should be recalibrated sooner if it is frequently used at the extremes of the specified operational range. A shorter recalibration interval may also be required by user guidelines or advisable if maximum accuracy is required for the instrument application.

Technical Operator: 
 John Smith

Approved By: 
 Nils Steffensen, Director of Engineering

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The above unit was tested according to NK's procedure number: NIST Verification 2008.10.01

This calibration certificate shall not be reproduced except in full without the written approval of Nielsen-Kellerman Co.

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