

# Kestrel<sup>®</sup> Pocket Weather<sup>®</sup> Meters Certificate of Calibration – Air Speed

<b>Order #:</b> 0	<b>Customer PO#:</b>
<b>Customer #:</b> 0	<b>Customer Name:</b> 0
<b>Instrument:</b> 0	<b>Manufacturer:</b> Nielsen-Kellerman
<b>Instrument Serial No:</b> 0	<b>Impeller Serial No:</b> 0
<b>Calibration Date:</b> 0-Jan-00	<b>Recalibration Due:</b> 30-Dec-00      12 Months

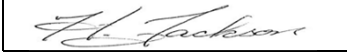
The above designated impeller was calibrated on the date shown in direct comparison to a Gill Model 1350 Single-Axis Ultrasonic Anemometer, Serial No. 0001. The Standard Anemometer is traceable to NIST (National Institute of Standards and Technology) and was last calibrated in the NIST Low Velocity Airflow Facility and NIST Dual Test-Section Wind Tunnel on 19-June-2015, NIST Test Report No.685-287002-15. The accuracy of the Standard is verified at regular scheduled intervals by comparison to or measurement against national standards, natural physical constants, consensus standards, or by ratio type measurements using self-calibrating techniques. The Standard's maximum combined uncertainty is  $\pm 1.04\%$  within the airspeed range 706.6 to 3923.9 fpm (3.59 to 19.93 m/s), and  $\pm 1.66\%$  within the airspeed range 166.6 to 706.6 fpm (0.85 to 3.59 m/s).

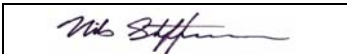
The **0** has a published Air Speed accuracy of  $\pm$  #N/A in the range of #N/A

Point	Reference	Acceptable Limits				DUT as Found		Difference	
1	fpm		to		fpm		fpm		fpm
2	fpm		to		fpm		fpm		fpm
Point	Reference	Acceptable Limits				DUT as Left		Difference	
3	fpm		to		fpm		fpm		fpm
4	fpm		to		fpm		fpm		fpm

**NOTES:**

- Calibration was performed in a 12 x 12 in (30.5 x 30.5 cm) rectangular test section wind tunnel at an ambient temperature of 77 $\pm$ 7°F ( 25  $\pm$ 4°C) and 40 $\pm$ 10% relative humidity.
- Problems noted:    None
- Instrument was received **in** tolerance for Air Speed.
- Instrument was received **out of** tolerance for Air Speed.
- No change was made to instrument.
- Replacement Impeller, Serial No. \_\_\_\_\_ was installed prior to "as Left" readings.
- 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:   
0

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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