

## **Kestrel<sup>®</sup> Pocket Weather<sup>®</sup> Meters** **Certificate of Calibration – Pressure**

**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

The above designated instrument was calibrated on the date shown in direct comparison to a Vaisala PTB 210A Digital Barometer, Serial No. K1440002. The Standard Barometer is traceable to NIST (National Institute of Standards and Technology) and was last calibrated on 15-June-2016. The accuracy of the Standard is verified at planned intervals by comparison to pressure standards traceable to NIST. The Standard's accuracy is  $\pm 0.15$  hPa at +20°C defined as the root sum of the squares (RSS) of end point non-linearity, hysteresis error, repeatability error and calibration uncertainty at room temperature.

The **Kestrel 5000 Environmental Meter**

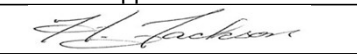
has a published Pressure accuracy of  $\pm$  **1.5 hPa** in the range of **700 - 1100 hPa, 25 °C**


Point	Reference	Acceptable Limits	DUT as Found	Difference
1	700.0 hPa	697.5 to 702.5 hPa	701.9 hPa	1.9 hPa 0.3%
2	1010.0 hPa	1008.5 to 1011.5 hPa	1012.1 hPa	2.1 hPa 0.2%
Point	Reference	Acceptable Limits	DUT as Left	Difference
1	700.0 hPa	699.0 to 701.0 hPa	700.2 hPa	0.2 hPa 0.0%
2	1010.0 hPa	1009.0 to 1011.0 hPa	1010.3 hPa	0.3 hPa 0.0%

**NOTES:**

Nominal time at each calibration value was 1 hour.

- Problems noted:
  - Instrument was received **in** tolerance for Pressure.
  - Instrument was received **out of** tolerance for Pressure.
  - 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

**Kestrel Pocket Weather Meters**  
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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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