

NIST Traceable
Calibration Report



Reference Number: 1382571
 PO Number: 10/30/19CALIBRATION
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Clearstak LLC
 99 Canal Street
 Putnam, CT 06260-1909 United States



Manufacturer: Cole-Parmer
Model Number: 99760-50
Description: Pressure, Barometer
Asset Number: CP206623
Serial Number: 150198538
Procedure: DS Control Company 4199

Calibration Date: 11/11/2019
Calibration Due Date: 05/11/2020
Condition As Found: Out of Tolerance
Condition As Left: In Tolerance After Adjustment

Remarks:
 NIST-traceable calibration performed on the unit referenced above in accordance with customer requirements, published specifications and the lab's standard operating procedures. Unit was received out-of-tolerance as indicated in the as-found data; adjustments were successful in bringing unit within specifications. As-left data reflects measurements taken after adjustments.
 This unit was tested over its all range to be in tolerance at Innocal's lab. When it is returned, the users should check their local barometric pressure and make the adjustment to unit so as to make it in tolerance at the specific sea level.

Standards Utilized

Asset No.	Manufacturer	Model No.	Description	Cal. Date	Due Date
CP05020	DH Instruments Inc.	RPM4 BA100KS	Calibrator, Reference Pressure Monitor	01/15/2019	01/31/2020

Calibration Data

FUNCTION TESTED	Nominal Value	As Found	Out of Tol	As Left	Out of Tol	CALIBRATION TOLERANCE
Increasing Barometric Pressure Test	960.0 mbar	971.5	X	959.5		955.2 to 964.8 mbar [EMU 0.12 mbar][TUR 39:1]
	1000.0 mbar	1011.0	X	999.0		995.0 to 1005.0 mbar [EMU 0.12 mbar][TUR 40:1]
	1050.0 mbar	1057.0	X	1045.0		1044.8 to 1055.2 mbar [EMU 0.12 mbar][TUR 42:1]
Decreasing Barometric Pressure Test	1000.0 mbar	1012.0	X	1000.0		995.0 to 1005.0 mbar [EMU 0.12 mbar][TUR 40:1]
	960.0 mbar	972.5	X	960.5		955.2 to 964.8 mbar [EMU 0.12 mbar][TUR 39:1]
Ambient Pressure	990.0 mbar	1003.5	X	991.5		985.1 to 994.9 mbar [EMU 0.12 mbar][TUR 40:1]

Temperature: 20° C
Humidity: 20% RH
Rpt. No.: 1602540

Calibration Performed By:				Quality Reviewer:	
Ren, Jenny	339	Metrologist	847-327-5327	Pietronicco, Mike	11/11/2019
Name	ID #	Title	Phone	Name	Date

This report may not be reproduced, except in full, without written permission of Innocal. The results stated in this report relate only to the items tested or calibrated. Measurements reported herein are traceable to SI units via national standards maintained by NIST and were performed in compliance with MIL-STD-45662A, ANSI/NCSL 2540-1-1994, 10CFR50, Appendix B, ISO 9002-94, and ISO 17025 2005. Guard Banding, if reported on this certificate, is applied at a Z-factor of 30% for test points with a test uncertainty ratio (TUR) below 4:1. In Tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The estimated measurement uncertainty (EMU), if reported on this certificate, is being reported at a confidence level of 95% or K=2 unless otherwise noted in the remarks section.