



Calibration  
Certificate No. 1750.01

# Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001



Cert. No.: 6530-7165095

## Traceable® Certificate of Calibration for Digital Barometer

Manufactured for and distributed by: Cole-Parmer Instrument Company, 625 East Bunker Court, Vernon Hills, IL 60061 U.S.A.

### Instrument Identification:

Model: 68000-49      S/N: 150810334      Manufacturer: Control Company

### Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Digital Barometer	D4540001	9/21/16	1000380976
Chilled Mirror Hygrometer	44654/2H3737	6/23/16	12062
Digital Thermometer	140156093	2/28/16	4000-6609514
Climate Chamber	W613.0046		

### Certificate Information:

Technician: 57      Procedure: CAL-31      Cal Date: 10/09/15      Due Date: 10/09/17  
Test Conditions: 24.0°C      45.0 %RH      1017 mBar

### Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
mb/hPa		N.A.		805.30	805	Y	801	809	0.70	>4:1
mb/hPa		N.A.		909.30	909	Y	905	913	0.70	>4:1
mb/hPa		N.A.		1,009.98	1,010	Y	1,006	1,014	0.70	>4:1
°C		N.A.		24.351	24.4	Y	24.0	24.8	0.069	>4:1
%RH		N.A.		51.33	51	Y	48	54	0.80	3.8:1

### This instrument was calibrated using instruments traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min = As Left Nominal(Rounded) - Tolerance; Max = As Left Nominal(Rounded) + Tolerance; Date=MM/DD/YY

*Nicol Rodriguez*  
Nicol Rodriguez, Quality Manager

*Aaron Judice*  
Aaron Judice, Technical Manager

### Maintaining Accuracy:

In our opinion once calibrated your Digital Barometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Barometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

### Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

**CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA**  
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Control Company is an ISO 17025:2005 Calibration Laboratory Accredited by (A2LA) American Association for Laboratory Accreditation, Certificate No. 1750.01.  
Control Company is ISO 9001:2008 Quality Certified by (DNV) Det Norske Veritas, Certificate No. CERT-01805-2006-AQ-HOU-RvA.  
International Laboratory Accreditation Cooperation (ILAC) - Multilateral Recognition Arrangement (MRA).