



American Association for Laboratory Accreditation

# Accredited Laboratory

A2LA has accredited

**INTERFACE, INC.**

*Scottsdale, AZ*

for technical competence in the field of

**Calibration**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 31<sup>st</sup> day of October 2014.



A handwritten signature in black ink, appearing to read "Peter Meyer", written over a horizontal line.

President & CEO  
For the Accreditation Council  
Certificate Number 1991.01  
Valid to November 30, 2016

*For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.*



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005  
& ANSI/NCSL Z540-1-1994

INTERFACE, INC.  
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CALIBRATION

Valid To: November 30, 2016

Certificate Number: 1991.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
DC Voltage – Measure	(0 to 0.14) V (0.14 to 1.4) V (1.4 to 14) V (14 to 140) V	26 $\mu\text{V}/\text{V}$ + 0.2 $\mu\text{V}$ 24 $\mu\text{V}/\text{V}$ + 2 $\mu\text{V}$ 22 $\mu\text{V}/\text{V}$ + 20 $\mu\text{V}$ 22 $\mu\text{V}/\text{V}$ + 200 $\mu\text{V}$	Solartron 7071
DC Voltage Ratio	(0 to 0.1)	0.0007 % + 0.1 $\mu\text{V}/\text{V}_{\text{ref}}$	Kelvin-Varley divider
Resistance – Measure	(0 to 1.4) k $\Omega$ (0.14 to 1.4) k $\Omega$ (1.4 to 14) k $\Omega$ (14 to 140) k $\Omega$ (140 to 1400) k $\Omega$	26 $\mu\Omega/\Omega$ + 0.2 m $\Omega$ 26 $\mu\Omega/\Omega$ + 2 m $\Omega$ 26 $\mu\Omega/\Omega$ + 20 m $\Omega$ 28 $\mu\Omega/\Omega$ + 0.2 $\Omega$ 36 $\mu\Omega/\Omega$ + 2 $\Omega$	Solartron 7071

II. Mechanical

Parameter/Equipment	Range	CMC <sup>2,3</sup> (±)	Comments
Force – Load Cells, Force Transducers	(200 to 240 000) lbf	0.035 %	Load cells
	(100 to 1100) lbf	0.05 %	
	(240 000 to 1 000 000) lbf	0.041 %	
	(1 to 500) lbf	0.04 %	Free weights
	(25 to 1100) lbf	0.03 %	Actuated weights
	(10 to 550) lbf	0.021 %	Actuated weights (stainless steel)
Torque – Torque Transducers	(2 to 50) gf	0.04 %	Free weights
	(25 to 2000) gf	0.03 %	
	(0.022 to 0.11) in·lbf	0.37 %	Torque arm and weights
	(0.09 to 0.18) in·lbf	0.1 %	
	(0.20 to 100) in·lbf	0.055 %	
	(2.2 to 250) in·lbf	0.042 %	
(8.8 to 177) in·lbf	0.05 %		
(40 to 2200) in·lbf	0.04 %		
(1700 to 10 000) in·lbf	0.11 %	Transducer comparison	
(4400 to 50 000) in·lbf	0.07 %		
(2000 to 100 000) in·lbf	0.14 %		

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> In the statement of CMC a % denotes a percent of reading unless otherwise noted.