

ANSI-ASQ National Accreditation Board/ACLASS

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

American Lab

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CALIBRATION

Valid to: July 27, 2012 Certificate Number: AC-1468

I. Electromagnetic – DC/Low Frequency

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
DC Voltage - Measure	Up to 40 mV (40 to 400) mV 400 mV to 4 V (4 to 40) V (40 to 400) V 400 V to 1 kV	$\begin{array}{c} 3 \text{ mV/V} + 50 \mu\text{V} \\ 3 \text{ mV/V} + 100 \mu\text{V} \\ 3 \text{ mV/V} + 1 \text{ mV} \\ 3 \text{ mV/V} + 10 \text{ mV} \\ 3 \text{ mV/V} + 100 \text{ mV} \\ 3 \text{ mV/V} + 1 \text{ V} \end{array}$		
AC Voltage - Measure 45 Hz to 1 kHz	Up to 400 mV 400 mV to 4 V (4 to 40) V (40 to 400) V 400 V to 1 kV	$\begin{array}{c} 19 \text{ mV/V} + 400 \mu\text{V} \\ 19 \text{ mV/V} + 2 \text{ mV} \\ 15 \text{ mV/V} + 20 \text{ mV} \\ 15 \text{ mV/V} + 200 \text{ mV} \\ 15 \text{ mV/V} + 2 \text{ V} \end{array}$	Fluke 79 Series III DMM	Manufacturers Procedures
DC Current - Measure	Up to 4 mA (4 to 40) mA 40 mA to 4 A (4 to 20) A	$5 \text{ mA/A} + 5 \mu\text{A}$ $5 \text{ mA/A} + 20 \mu\text{A}$ 5 mA/A + 5 mA 5 mA/A + 20 mA		
AC Current - Measure 45 Hz to 1 kHz	Up to 4 mA (4 to 40) mA 40 mA to 4 A (4 to 20) A	$\begin{array}{c} 15 \text{ mA/A} + 4 \mu\text{A} \\ 15 \text{ mA/A} + 20 \mu\text{A} \\ 15 \text{ mA/A} + 4 \text{ mA} \\ 15 \text{ mA/A} + 20 \text{ mA} \end{array}$		





II. Mechanical

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Torque	(5 to 50) lbf-in	1.12 lbf∙in	CDI Torque Tester	A/L Calibration Procedure 035
Force Tension and Compression	Up to 440 lbf	2.82 lbf	Digital Force Gage	A/L Calibration Procedure 039

III. Dimensional

PARAMETER/ EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Height Gages	Up to 24 in	600 µin	Gage Blocks Grade 2	A/L Procedure 007 (NAVAIR 17-20MD-07)
Calipers	Up to 24 in	600 µin	Gage Blocks Grade 2	A/L Procedure 004/005 (NAVAIR 17- 20MD-07)
Micrometers	Up to 12 in	(65.5 + 23L) μin	Gage Blocks Grade 2 Mic STD 1" to 11"	A/L Procedure 016 (NAVAIR 17-20MD- 20MD-96)
Pitch Diameter, External Threads	Up to 4 in	46 μin	Supermicrometer and thread wires	A/L Calibration Procedure 032
Dial Indicators	Up to 4 in	80 μin	Gage Blocks Grade 2	A/L Calibration Procedure 010 (NAVAIR 17-20MD-11)
Gage blocks	(0.05 to 1) in (1 to 4) in	(13.2 + 0.93L) μin (11.782 + 4.2L) μin	Gage Blocks Comparator	A/L Procedure 033 Federal Spec; ASME B89.1.9-2002

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Notes:

- Calibration and Measurement Capabilities (CMC) (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of k=2.
- This laboratory offers calibration services in its laboratory and on-site at customer-designated locations. Since on-site conditions are
 typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on
 the accredited scope.
- 3. CMC for Electromagnetic-DC/Low Frequency do not include possible contributions to uncertainty from a "best available" unit under test.
- 4. This scope is part of and must be included with Certificate of Accreditation ACT-1468.

Vice President

Cul Greenway

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