



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

ACCU-CHECK INSTRUMENT SERVICE, INC.  
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CALIBRATION

Valid until: July 31, 2018

Certificate Number: 1009.01

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. Dimensional

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Gage Blocks	Up to 4 in (4 to 12) in	(2.2 + 1.7L) μin (3.2 + 1.0L) μin	Pratt & Whitney (P & W) Labmaster™ standard
Pin & Plug Gages, Master Disks	Up to 12 in	(5.2 + 1.5D) μin	P & W Labmaster™ universal
Indicators <sup>3</sup>	Up to 6 in	(12 + 0.6R) μin (43 + 0.6R) μin	Gage blocks Gage calibrator
Height Gages <sup>3</sup>	Up to 48 in	(0.6R + 13L) μin	Gage blocks
Calipers <sup>3</sup>	Up to 120 in	(0.6R + 12.5L) μin	Gage blocks & rings
Micrometers <sup>3</sup>	Up to 60 in	(0.6R + 13L) μin	Gage blocks & pins

Parameter/Equipment	Range	CMC <sup>2,4</sup> ( $\pm$ )	Comments
Mic/Length Standards <sup>3</sup>	Up to 54 in	33 $\mu$ in	Optodyne laser
Ring Gages	(0.02 to 12) in	(4.6 + 1.9D) $\mu$ in	P & W Labmaster <sup>TM</sup> and master ring gages
Thread Plugs	Up to 12 in	(62 + 1.5D) $\mu$ in	Direct comparison, gage blocks & wires
Optical Comparators <sup>3</sup> – Travel X-Y Magnification	Up to 12 in 5x to 100x	140 $\mu$ in 380 $\mu$ in	Plug/master balls, angle blocks/glass master
Master Levels	(4 to 18) in	31 $\mu$ in/in	Surface plate & gage blocks
Distance <sup>3</sup> – Length Masters	Up to 20 ft	40 $\mu$ in	Optodyne laser
Thread Wires <sup>5</sup>	(4 to 120) T.P.I.	8.3 $\mu$ in	P & W Labmaster <sup>TM</sup> universal
Optical Flats – Flatness	Up to 2 in	2.9 $\mu$ in	Optical flat & monochromatic light
Optical Parallels – Parallelism	Up to 2 in	3.8 $\mu$ in	P & W Labmaster <sup>TM</sup>
1-2-3 Blocks, Box Parallels	Up to 3 in	31 $\mu$ in	Transfer box
Protractors	(0 to 360) $^{\circ}$	0.02 $^{\circ}$ , 1.1'	Angle blocks

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
Steel Rules	Up to 72 in (1800 mm)	(0.0012 +0.0000062L) μin	Optodyne laser
Tape Measures	Up to 100 ft	(0.00065 + 0.0000062L) μin	Comparison
Taper Gages	Up to 3 in	0.00017 in	Comparator, micrometer
Angle Blocks	(0 to 90)°	24"	Transfer box, sine plate
Radius Gages	Up to 3 in	0.00038 in	Comparator
Straight Edges	Up to 6 ft	98 μin	Transfer box
V-Blocks	Up to 12 in	69 μin	Transfer box, sine plate
Squares	Up to 18 in	84 μin	Square checker, electronic indicator
Cylindrical Squares	Up to 18 in	71 μin	Square checker, electronic indicator
Glass Scales	Up to 48 in	52 μin	P & W Lengthmaster™, Optodyne laser



## II. Dimensional Testing<sup>1</sup>

Parameter	Range	CMC <sup>2</sup> (±)	Technique
One Dimensional <sup>9</sup> –			
Length	Up to 6 in	300 μin	Optical comparator
Radius	Up to 6 in	290 μin	
Diameter	Up to 6 in	290 μin	Micro-Vertex
Center to Center	Up to 6 in	300 μin	
Height	Up to 32 in	88 μin	
Angles	(0 to 360) <sup>o</sup>	5'	

## III. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC <sup>2, 6, 10</sup> (±)	Comments
DC Current <sup>3</sup> – Generate	(0 to 329.999) μA (0 to 3.29999) mA (0 to 32.9999) mA (0 to 329.999) mA (0 to 1.09999) A (1.1 to 2.99999) A (0 to 10.9999) A (11 to 20.5) A	0.015 % + 0.023 μA 0.013 % + 0.09 μA 0.01 % + 0.26 mA 0.01 % + 2.6 mA 0.038 % + 70 μA 0.045 % + 75 μA 0.07 % + 300 μA 0.12 % + 375 μA	Fluke 5502A
DC Current – Measure <sup>3</sup>	(0 to 100) μA (0 to 1) mA (0 to 10) mA (0 to 100) mA (0 to 400) mA (0 to 1) A (0 to 3) A (0 to 10) A	0.05 % + 0.026 μA 0.05 % + 0.053 μA 0.05 % + 0.053 μA 0.05 % + 8.2 μA 0.05 % + 0.024 mA 0.05 % + 0.28 mA 0.1 % + 0.74 mA 0.15 % + 9.5 mA	Fluke 8845A
DC Voltage <sup>3</sup> – Generate	(0 to 329.9999) mV (0 to 3.299999) V (0 to 32.99999) V (30 to 329.9999) V (100 to 1020.000) V	0.005 % + 3.5 μV 0.005 % + 15 μV 0.005 % + 150 μV 0.0055 % + 1.5 mV 0.0055 % + 4.1 mV	Fluke 5502A

Parameter/Equipment	Range	CMC <sup>2, 6, 10</sup> (±)	Comments
DC Voltage <sup>3</sup> – Measure	(0 to 100) mv (0 to 1) V (0 to 10) V (0 to 100) V (0 to 1000) V	0.005 % + 6.1 μV 0.004 % + 9.2 μV 0.004 % + 11 μV 0.005 % + 0.38 mV 0.0055 % + 2.1 mV	Fluke 8845A
Resistance <sup>3</sup> – Generate	(0 to 11) Ω (11 to 33) Ω (33 to 110) Ω (110 to 330) Ω 330Ω to 1.1 kΩ (1.1 to 3.3) kΩ (3.3 to 11) kΩ (11 to 33) kΩ (33 to 110) kΩ (110 to 330) kΩ 330 kΩ to 1.1 MΩ (1.1 to 3.3) MΩ (3.3 to 11) MΩ (11 to 33) MΩ (33 to 110) MΩ (110 to 330) MΩ (330 to 1100) MΩ	0.02 % + 0.56 mΩ 0.017 % + 0.42 mΩ 0.01 % + 1.0 mΩ 0.01 % + 0.8 mΩ 0.009 % + 7.6 mΩ 0.01 % + 16 mΩ 0.009 % + 100 mΩ 0.017 % + 0.44 Ω 0.019 % + 1.0 Ω 0.013 % + 1.2 Ω 0.015 % + 8.0 Ω 0.017 % + 60 Ω 0.062 % + 100 Ω 0.12 % + 1.4 kΩ 0.51 % + 6.0 kΩ 0.5 % + 180 kΩ 1.6 % + 800 kΩ	Fluke 5502A
Resistance <sup>3</sup> – Measure	(0 to 100) Ω 100 Ω to 1 kΩ (1 to 10) kΩ (10 to 100) kΩ 100 kΩ to 1 MΩ (1 to 10) MΩ (10 to 100) MΩ	0.05 % + 2.2 mΩ 0.011 % + 1.0 mΩ 0.012 % + 40 mΩ 0.01 % + 2.0 Ω 0.012 % + 10 Ω 0.045 % + 100 Ω 0.88 % + 10 kΩ	Fluke 8845A
High Voltage <sup>3</sup> – Measure			
DC Voltage	(0 to 20) kV	1.9 %	Fluke 8845A & Fluke 80K40 high voltage probe
AC Voltage	(0 to 28) kV	5.1 %	





Parameter/Equipment	Range	CMC <sup>2,10</sup> ( $\pm$ )	Comments
Oscilloscope <sup>3</sup> –			
DC Gain	(0 to 6.6) V (0 to 130.0) V	0.35 % + 4.0 mV 0.15 % + 7.0 mV	Fluke 5502A/6
Flatness	50 kHz Reference 50 kHz to 100 MHz (100 to 300) MHz (300 to 600) MHz	2.0 % + 6.6 mV 2.5 % + 2.0 mV 4.3 % + 1.0 mV	
Time Marker	50 ms to 5 s 100 ns to 20 ms (20 to 50) ns 10 ns (2 to 5) ns	0.5 % + 0.2 ms 0.04 % + 0.92 $\mu$ s 0.016 % + 0.92 ps 0.08 % + 0.92 ps 0.1 % + 0.82 ps	
Standard Amplitude –			
50 $\Omega$ @ 10 Hz to 10 kHz 1 M $\Omega$ @ 11 Hz to 10 kHz	1 mV to 6.6 V <sub>(p-p)</sub> 1 mV to 130 V <sub>(p-p)</sub>	0.8 % + 1.0 mV 1.1 % + 4.0 mV	



Parameter/Range	Frequency	CMC <sup>2, 10</sup> (±)	Comments	
AC Current <sup>3</sup> – Generate				
(29 to 329.99) µA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.2 % + 0.1 nA 0.15 % + 54 nA 0.15 % + 80 nA 0.35 % + 90 nA 0.9 % + 60 nA 0.18 % + 60 nA	Fluke 5502A	
(0.33 to 3.29999) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.22 % + 20 nA 0.14 % + 0.12 µA 0.11 % + 24 µA 0.23 % + 0.08 µA 0.53 % + 0.3 µA 1.1 % + 0.4 µA		
(3.3 to 32.9999) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.2 % + 0.2 mA 0.1 % + 3.0 mA 0.057 % + 0.7 mA 0.1 % + 0.8 mA 0.24 % + 1.3 mA 0.4 % + 7.0 mA		
(33 to 329.9999) mA	(10 to 20) Hz (20 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.28 % + 4.0 mA 0.11 % + 2.0 µA 0.058 % + 5.0 µA 0.13 % + 8.0 µA 0.26 % + 14 µA 0.55 % + 20 µA		
(0.33 to 1.09999) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.19 % + 100 µA 0.06 % + 90 µA 0.7 % + 180 µA 2.7 % + 400 µA		
(1.1 to 2.99999) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.22 % + 80 µA 0.095 % + 85 µA 0.65 % + 850 µA 2.65 % + 3.4 mA		
(3 to 10.9999) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.1 % + 1.0 mA 0.15 % + 0.1 mA 3.0% + 6.0 mA		
(11 to 20.5) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.15 % + 3.6 mA 0.18 % + 2.0 mA 3.0 % + 20 mA		
(20.5 to 1025) A	(45 to 65) Hz (65 to 440) Hz	0.6 % + 0.06 A 0.6 % + 0.04 A		Fluke 5502A w/ coil





Parameter/Range	Frequency	CMC <sup>2, 10</sup> (±)	Comments
AC Current – Measure <sup>3</sup>			Fluke 8845A
(0 to 10) mA	(0 to 10) Hz 10 Hz to 5 kHz (5 to 10) kHz	0.4 % + 0.8 μA 0.21 % + 8.0 μA 1.0 % + 6.0 μA	
(10 to 100) mA	(0 to 10) Hz 10 Hz to 5 kHz (5 to 10) kHz	0.41 % + 8.0 μA 0.15 % + 1.0 μA 0.45 % + 28 μA	
(100 to 400) mA	(0 to 10) Hz 10 Hz to 1 kHz (1 to 10) kHz	0.55 % + 120 μA 0.25 % + 60 μA 1.4 % + 200 μA	
(0.4 to 1) A	0 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.36 % + 100 μA 0.15 % + 20 μA 1.0 % + 800 μA	
(1 to 3) A	(0 to 100) Hz 100 Hz to 1 kHz (1 to 10) kHz	0.4 % + 1.2 mA 0.2 % + 1.1 mA 1.6 % + 1.8 mA	
(3 to 10) A	(0 to 100) Hz 100 Hz to 1 kHz	0.25 % + 1.5 mA 1.1 % + 4.0 mA	



Parameter/Range	Frequency	CMC <sup>2, 10</sup> (±)	Comments
AC Voltage <sup>3</sup> – Generate			
(1 to 32.999) mV	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	0.2 % + 8.0 μV 0.15 % + 8.0 μV 0.2 % + 8.0 μV 0.25 % + 11.2 μV 0.45 % + 11 μV 1.2 % + 22 μV	Fluke 5502A
(33.000 to 329.999) mV	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	0.055 % + 14 μV 0.035 % + 14 μV 0.075 % + 15 μV 0.11 % + 26 μV 0.29 % + 14 μV 0.63 % + 20 μV	
(0.33 to 3.29999) V	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 500) kHz	0.053 % + 60 μV 0.034 % + 30 μV 0.075 % + 10 μV 0.11 % + 30 μV 0.24 % + 100 μV 0.55 % + 300 μV	
(3.3 to 32.9999) V	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.055 % + 0.2 mV 0.034 % + 0.3 mV 0.075 % + 0.1 mV 0.11 % + 0.5 mV 0.24 % + 1.2 mV	
(33 to 329.999) V	45 Hz to 1 kHz (1 to 10) kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.054 % + 3.0 mV 0.085 % + 7.0 mV 0.095 % + 7.0 mV 0.13 % + 10 mV 0.27 % + 20 mV	
(330 to 1020) V	45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.055 % + 17 mV 0.085 % + 15 mV 0.095 % + 15 mV	



Parameter/Range	Frequency	CMC <sup>2, 10</sup> (±)	Comments
AC Voltage <sup>3</sup> – Measure			
(0 to 100) mV	(0 to 10) Hz 10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz	0.45 % + 14 µV 0.1 % + 5.0 µV 0.15 % + 26 µV 0.6 % + 90 µV 4.5 % + 40 µV	Fluke 8845A
(0.1 to 1) V	(0 to 10) Hz 10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz	0.45 % + 20 µV 0.09 % + 28 µV 0.17 % + 40 µV 0.68 % + 40 µV 4.5 % + 600 µV	
(1 to 10) V	(0 to 10) Hz 10 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz	0.43 % + 0.2 mV 0.09 % + 0.38 mV 0.15 % + 2.9 mV 0.7 % + 0.8 mV 1.5 % + 32 mV	
(10 to 100) V	(0 to 100) Hz 100Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	0.39 % + 2.0 mV 0.09 % + 3.8 mV 0.15 % + 30 mV 0.7 % + 6.0 mV	
(100 to 750) V	(0 to 100) Hz 100Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz	0.38 % + 70 mV 0.1 % + 8.0 mV 0.25 % + 70 mV 0.9 % + 40 mV	

#### IV. Mechanical

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Vacuum <sup>3</sup>	(0 to 30) inHg	0.21 % of full scale	Druck 610
Pressure <sup>3</sup> – Hydraulic	(30 to 10 000) psi	0.1 % of full scale	Deadweight tester, weights
	(0 to 1000) psi (0 to 5000) psi	0.11 % of full scale 0.1 % of full scale	Druck 610
Pneumatic	(0 to 300) psi	0.08 % of full scale	Druck 610





Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Indirect Verification of Rockwell Hardness Testers <sup>3</sup> – (cont)			
Rockwell & Portable Rockwell	HR15N: Low Medium High	0.36 HR15N 0.39 HR15N 0.52 HR15N	Indirect verification per ASTM E18, E110
	HR30N: Low Medium High	0.64 HR30N 0.67 HR30N 0.65 HR30N	
	HR45N: Low Medium High	0.89 HR45N 0.74 HR45N 0.58 HR45N	
	HRRW: Low High	0.59 HRRW 0.29 HRRW	
	HR15TW: Low Medium High	0.47 HR15TW 0.52 HR15TW 0.53 HR15TW	
	HR30TW: Low Medium High	0.82 HR30TW 0.52 HR30TW 0.48 HR30TW	
	HR45TW: Low Medium High	0.75 HR45TW 0.68 HR45TW 0.53 HR45TW	
	HR15WW: Low High	0.75 HR15WW 0.68 HR15WW	



Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
<p>Indirect Verification of Rockwell Hardness Testers<sup>3</sup> – (cont)</p> <p>Rockwell &amp; Portable Rockwell</p>	<p>HR30WW: Low High</p> <p>HR45WW: Low High</p> <p>HR15YW: Low High</p> <p>HR30YW: Low High</p> <p>HR45YW: Low High</p>	<p>1.4 HR30WW 0.38 HR30WW</p> <p>1.54 HR45WW 0.45 HR45WW</p> <p>0.55 HR15YW 0.36 HR15YW</p> <p>0.46 HR30YW 0.55 HR30YW</p> <p>0.51 HR45YW 0.29 HR45YW</p>	<p>Indirect verification per ASTM E18, E110</p>
<p>Indirect Verification of Brinell Hardness Testers at Test Condition(s)<sup>3</sup> –</p> <p>HBW 10/500/15 HBW 10/1500/15 HBW 10/3000/15</p>	<p>(16 to 109) HBW (48 to 327) HBW (95.5 to 650) HBW</p>	<p>0.04<i>d</i> HBW 0.04<i>d</i> HBW 0.04<i>d</i> HBW</p>	<p>Indirect verification method per ASTM E10</p> <p><i>d</i> is the mean of the <i>n</i> mean test diameters in millimeters.</p> <p>Uncertainty is stated as a percentage of the standardized test block hardness value.</p>

V. Thermodynamics

Parameter/Equipment	Range	CMC <sup>2</sup> (±)	Comments
Relative Humidity <sup>3</sup>	12.6 % RH 33 % RH 75 % RH 97.6 % RH	2.5 % RH 2.5 % RH 2.5 % RH 2.5 % RH	Comparison to digital meter & saturated salts ASTM E-104
Liquid-In-Glass Thermometers <sup>3</sup>	32 °F  (68 to 662) °F	0.31 °F  0.54 °F	Thermco CT375DIG  Fluke 9143
Temperature – Measure & Measuring Equipment <sup>3</sup>	(32 to 750) °F  (30 to 122) °F  (68 to 662) °F	0.49 °F  0.40 °F  0.54 °F	Thermco CT375DIG  Onset UX100  Fluke 9143
Infrared Thermometers <sup>3</sup>	(122 to 932) °F	0.84 °F	Fluke 9132

VI. Time & Frequency

Parameter/Equipment	Range	CMC <sup>2, 10</sup> (±)	Comments
Timing Devices <sup>3</sup>	(0 to 3600) s	0.42 s	NIST RP 960-12, digital timing standard
Frequency – Measuring Equipment <sup>3</sup>	(0.01 to 119.99) Hz (120.0 to 1199.9) Hz (1.2 to 11.999) kHz (12.0 to 119.99) kHz (120.0 to 1199.9) kHz (1.2 to 2.000) MHz	0.0055 % + 0.36 mHz 0.0025 % + 1.4 mHz 0.0025 % + 10 mHz 0.0026 % + 20 mHz 0.0025 % + 100 mHz 0.0025 % + 100 mHz	Fluke 5502A



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<sup>1</sup> This laboratory offers commercial calibration, dimensional testing and field calibration services.

<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. CMC's 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> Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC,  $L$  is the length in inches of the unit under test,  $R$  is the resolution in inches of the unit under test,  $D$  is the diameter in inches of the unit under test.

<sup>5</sup> The uncertainty of the thread wire pertains to a single wire.

<sup>6</sup> In the statement of CMC, the value is defined as the percentage of reading, unless otherwise noted.

<sup>7</sup> Where ranges are not specified, the CMC stated is for the cardinal points only.

<sup>8</sup> The actual uncertainty reported to the client includes the resolution of the UUT in the final uncertainty value.

<sup>9</sup> This test is not equivalent to that of a calibration.

<sup>10</sup> The stated measured values are determined using the indicated instrument (see Comments). This capability is suitable for the calibration of the devices intended to measure or generate the measured value in the ranges indicated. CMC are expressed as either a specific value that covers the full range or as a fraction/reading of the reading plus a fixed floor specification.



## Accredited Laboratory

A2LA has accredited

**ACCU-CHECK INSTRUMENT SERVICE, INC.**

*Lancaster, OH*

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/NCSLI Z540-1-1994 and R205 – *Specific Requirements – Calibration Laboratory Accreditation Program*. 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 4<sup>th</sup> day of November 2016.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 1009.01  
Valid to July 31, 2018

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