



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

DGI METROLOGY-DIMENSIONAL GAUGE COMPANY

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CALIBRATION

Valid To: June 30, 2028

Certificate Number: 4870.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the organization's compliance with R205 – A2LA's Calibration Program Requirements) accreditation is granted to this laboratory to perform the following calibrations^{1,5}:

I. Acoustics & Vibration

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Microphone Sensitivity	(2 to 35) mV (-55 to -35) dB Ref: 1 V/Pa 250 Hz	0.18 dB	IEC 61094-6
Frequency Response	(35 to 50) mV (-35 to -25) dB Ref: 1 V/Pa 250 Hz 20 Hz to 20 kHz (20 to 100) kHz	0.18 dB 91 mdB 0.1 dB	Electrostatic actuator
Pistonphones (Acoustic Calibrators) –	(74 to 135) dB Ref: 1 V/pa 250 Hz	0.08 dB	IEC 60942-2017
Frequency	250 Hz; 1 kHz	0.01 Hz	
Total Harmonic Distortion (%)	< 3 % of reading	0.08 % of Reading	

Parameter/Equipment	Frequency	CMC ^{2,3} (±)	Comments
Vibration – Accelerometers 0.1 to 10g magnitude	(5 to 9) Hz (10 to 99) Hz (0.1 to 1.999) kHz (2 kHz to 10) kHz	2.1 % 1.6 % 1.1 % 2.7 %	ISO 16063-21:2003(E)

II. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
DC Voltage – Measure	(0 to 100) mV 100 mV to 1 V (1 to 10) V (10 to 100) V (100 to 1000) V	9.0 $\mu\text{V}/\text{V} + 0.3 \mu\text{V}$ 8.0 $\mu\text{V}/\text{V} + 0.3 \mu\text{V}$ 8.0 $\mu\text{V}/\text{V} + 0.6 \mu\text{V}$ 10 $\mu\text{V}/\text{V} + 31 \mu\text{V}$ 10 $\mu\text{V}/\text{V} + 0.1 \text{ mV}$	Agilent 3458A
DC Voltage – Generate	Up to 330 mV 330 mV to 3.3 V (3.3 to 33) V (30 to 330) V 330 V to 1.02 kV	18 $\mu\text{V}/\text{V} + 670 \text{ nV}$ 9.1 $\mu\text{V}/\text{V} + 1.3 \mu\text{V}$ 9.5 $\mu\text{V}/\text{V} + 13 \mu\text{V}$ 13 $\mu\text{V}/\text{V} + 100 \mu\text{V}$ 12 $\mu\text{V}/\text{V} + 1 \text{ mV}$	Fluke 5522A
DC Current – Measure	Up to 100 nA 1 μA 10 μA 100 μA 1 mA 10 mA 100 mA 1 A	30 $\mu\text{A}/\text{A} + 0.04 \text{ nA}$ 20 $\mu\text{A}/\text{A} + 0.04 \text{ nA}$ 20 $\mu\text{A}/\text{A} + 0.1 \text{ nA}$ 20 $\mu\text{A}/\text{A} + 0.81 \text{ nA}$ 20 $\mu\text{A}/\text{A} + 5.2 \text{ nA}$ 20 $\mu\text{A}/\text{A} + 52 \text{ nA}$ 35 $\mu\text{A}/\text{A} + 0.52 \mu\text{A}$ 110 $\mu\text{A}/\text{A} + 10 \mu\text{A}$	Agilent 3458A
DC Current – Generate	Up to 30 μA 330 μA to 3.3 mA (3.3 to 33) mA (33 to 330) mA 330 mA to 1.1 A (1.1 to 3) A (3 to 11) A (11 to 20.5) A	100 $\mu\text{A}/\text{A} + 13 \text{ nA}$ 68 $\mu\text{A}/\text{A} + 33 \text{ nA}$ 67 $\mu\text{A}/\text{A} + 170 \text{ nA}$ 67 $\mu\text{A}/\text{A} + 1.7 \mu\text{A}$ 130 $\mu\text{A}/\text{A} + 27 \mu\text{A}$ 250 $\mu\text{A}/\text{A} + 27 \mu\text{A}$ 330 $\mu\text{A}/\text{A} + 330 \mu\text{A}$ 670 $\mu\text{A}/\text{A} + 500 \mu\text{A}$	Fluke 5522A

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Voltage – Generate			
(1 to 33) 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	530 μV/V + 4 μV 100 μV/V + 4 μV 140 μV/V + 4 μV 670 μV/V + 4 μV 2.3 mV/V + 8 μV 5.3 mV/V + 33 μV	Fluke 5522A
(33 to 330) 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	200 μV/V + 5.3 μV 98 μV/V + 5.3 μV 110 μV/V + 5.3 μV 230 μV/V + 5.3 μV 530 μV/V + 21 μV 1.3 mV/V + 47 μV	
330 mV to 3.3 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	200 μV/V + 33 μV 100 μV/V + 40 μV 130 μV/V + 40 μV 200 μV/V + 33 μV 470 μV/V + 83 μV 1.6 mV/V + 400 μV	
(3.3 to 33) V	(10 to 45) Hz 45 Hz to 10 kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	200 μV/V + 530 μV 100 μV/V + 400 μV 160 μV/V + 400 μV 230 μV/V + 400 μV 600 μV/V + 1.1 mV	
(33 to 330) V	45 Hz to 1 kHz (1 to 10) kHz (10 to 20) kHz (20 to 50) kHz (50 to 100) kHz	130 μV/V + 1.3 mV 140 μV/V + 4 mV 170 μV/V + 4 mV 200 μV/V + 4 mV 1.3 mV/V + 33 mV	
330 V to 1.02 kV	45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	200 μV/V + 6.7 mV 200 μV/V + 6.7 mV 200 μV/V + 6.7 mV	

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Voltage – Measure			
(0 to 10) mV	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 4) MHz (4 to 8) MHz	0.30 mV/V + 3.0 μV 0.20 mV/V + 1.1 μV 0.30 mV/V + 1.1 μV 1.0 mV/V + 1.1 μV 5.0 mV/V + 1.1 μV 40 mV/V + 20 μV 12 mV/V + 50 μV 70 mV/V + 70 μV 200 mV/V + 80 μV	Agilent 3458A
100 mV	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 2) MHz (2 to 4) MHz (4 to 8) MHz (8 to 10) MHz	0.08 mV/V + 4 μV 0.08 mV/V + 2 μV 0.14 mV/V + 2 μV 0.30 mV/V + 2 μV 0.8 mV/V + 2 μV 3 mV/V + 10 μV 10 mV/V + 10 μV 15 mV/V + 10 μV 40 mV/V + 70 μV 40 mV/V + 80 μV 150 mV/V + 100 μV	
1 V	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 2) MHz (2 to 4) MHz (4 to 8) MHz (8 to 10) MHz	0.08 mV/V + 0.04 mV 0.08 mV/V + 0.02 mV 0.14 mV/V + 0.02 mV 0.30 mV/V + 0.02 mV 0.80 mV/V + 0.02 mV 3.0 mV/V + 0.10 mV 10 mV/V + 0.10 mV 15 mV/V + 0.10 mV 40 mV/V + 0.70 mV 40 mV/V + 0.80 mV 150 mV/V + 1.0 mV	
10 V	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz (1 to 2) MHz (2 to 4) MHz (4 to 8) MHz (8 to 10) MHz	0.08 mV/V + 0.40 mV 0.08 mV/V + 0.20 mV 0.14 mV/V + 0.20 mV 0.30 mV/V + 0.20 mV 0.80 mV/V + 0.20 mV 3.0 mV/V + 1.0 mV 10 mV/V + 1.0 mV 15 mV/V + 1.0 mV 40 mV/V + 7.0 mV 40 mV/V + 8.0 mV 150 mV/V + 10 mV	

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Voltage – Measure (cont)			
100 V	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz	0.20 mV/V + 4.0 mV 0.20 mV/V + 2.0 mV 0.20 mV/V + 2.0 mV 0.35 mV/V + 2.0 mV 1.2 mV/V + 2.0 mV 4.0 mV/V + 30 mV 15 mV/V + 100 mV	Agilent 3458A
750 V	(1 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 50) kHz (50 to 100) kHz	0.40 mV/V + 40 mV 0.40 mV/V + 20 mV 0.60 mV/V + 20 mV 1.2 mV/V + 20 mV 3.0 mV/V + 20 mV	
AC Current – Generate			
(29 to 330) 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	1.4 mA/A + 67 nA 1 mA/A + 67 nA 830 µA/A + 67 nA 2 mA/A + 100 nA 5.3 mA/A + 130 nA 11 mA/A + 270 nA	Fluke 5522A
330 µA to 3.3 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	1.4 mA/A + 100 nA 850 µA/A + 100 nA 670 µA/A + 100 nA 1.3 mA/A + 130 nA 3.3 mA/A + 200 nA 6.7 mA/A + 400 nA	
(3.3 to 33) 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	1.2 mA/A + 1.3 µA 600 µA/A + 1.3 µA 270 µA/A + 1.3 µA 530 µA/A + 1.3 µA 1.3 mA/A + 2 µA 2.7 mA/A + 2.7 µA	
(33 to 330) 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	1.2 mA/A + 13 µA 600 µA/A + 13 µA 270 µA/A + 13 µA 670 µA/A + 33 µA 1.3 mA/A + 67 µA 2.7 mA/A + 130 µA	

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Current – Generate (cont)			
330 mA to 1.1 A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	1.2 mA/A + 67 µA 330 µA/A + 67 µA 4 mA/A + 670 µA 17 mA/A + 3.3 mA	Fluke 5522A
(1.1 to 3) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	1.2 mA/A + 67 µA 400 µA/A + 67 µA 4.0 mA/A + 670 µA 17 mA/A + 3.3 mA	
(3 to 11) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	400 µA/A + 1.3 mA 690 µA/A + 1.3 mA 20 mA/A + 1.3 mA	
(11 to 20.5) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	800 µA/A + 3.3 mA 1 mA/A + 3.3 mA 20 mA/A + 3.3 mA	
AC Current – Measure			
Up to 100 µA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz	4.0 mA/A + 30 nA 1.5 mA/A + 30 nA 0.6 mA/A + 30 nA 0.6 mA/A + 30 nA	Agilent 3458A
100 µA to 1 mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz	4.0 mA/A + 200 nA 1.5 mA/A + 200 nA 0.6 mA/A + 500 nA 0.3 mA/A + 0.2 µA 0.6 mA/A + 0.2 µA 4.0 mA/A + 0.4 µA 5.5 mA/A + 1.5 µA	
(1 to 10) mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz	4.0 mA/A + 2.0 µA 1.5 mA/A + 2.0 µA 0.6 mA/A + 2.0 µA 0.3 mA/A + 2.0 µA 4.0 mA/A + 4.0 µA 5.5 mA/A + 15 µA 4.0 mA/A + 20 µA	

Parameter/Range	Frequency	CMC ^{2,4} (±)	Comments
AC Current – Measure (cont)			
(10 to 100) mA	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz 100 Hz to 5 kHz (5 to 20) kHz (20 to 50) kHz (50 to 100) kHz	1.5 mA/A + 20 µA 0.6 mA/A + 20 µA 0.3 mA/A + 20 µA 0.6 mA/A + 20 µA 4.0 mA/A + 40 µA 5.5 mA/A + 150 µA 4.0 mA/A + 200 µA	Agilent 3458A
100 mA to 1 A	(10 to 20) Hz (20 to 45) Hz (45 to 100) Hz (5 to 20) kHz (20 to 50) kHz	4.0 mA/A + 200 µA 1.6 mA/A + 200 µA 0.8 mA/A + 200 µA 3.0 mA/A + 0.2 mA 10 mA/A + 0.4 mA	
Capacitance – Generate			
(220 to 400) pF 400 pF to 1.1 nF (1.1 to 3.3) nF (3.3 to 11) nF (11 to 33) nF (33 to 110) nF (110 to 330) nF 330 nF to 1.1 µF (1.1 to 3.3) µF (3.3 to 11) µF (11 to 33) µF (33 to 110) µF (110 to 330) µF 330 µF to 1.1 mF (1.1 to 3.3) mF (3.3 to 11) mF (11 to 33) mF (33 to 110) mF	10 Hz to 10 kHz 10 Hz to 10 kHz 10 Hz to 3 kHz 10 Hz to 1 kHz 10 Hz to 1 kHz 10 Hz to 1 kHz 10 Hz to 1 kHz (100 to 600) Hz (10 to 300) Hz (10 to 150) Hz (10 to 120) Hz (10 to 80) Hz (0 to 50) Hz (0 to 20) Hz (0 to 6) Hz (0 to 2) Hz (0 to 0.6) Hz (0 to 0.2) Hz	0.40 % + 7 pF 0.35 % + 7 pF 0.29 % + 7 pF 0.26 % + 7 pF 0.18 % + 7 pF 0.26 % + 7 pF 0.18 % + 20 pF 0.26 % + 0.67 nF 0.21 % + 2 nF 0.26 % + 6.7 nF 0.29 % + 20 nF 0.36 % + 67 nF 0.31 % + 200 nF 0.36 % + 0.67 µF 0.31 % + 2 µF 0.37 % + 6.7 µF 0.50 % + 20 µF 0.20 % + 67 µF	Fluke 5522A

Parameter/Equipment	Range	CMC ^{2, 3, 4} (±)	Comments
Electrical Simulation of RTDs –			
Pt 385 (100 Ω)	(-200 to 0) °C	0.35 °C + 0.005 [t]	Fluke 5522A [t] = temperature
	(0 to 100) °C	0.35 °C + 0.005 [t]	
	(100 to 300) °C	0.35 °C + 0.005 [t]	
	(300 to 400) °C	0.35 °C + 0.005 [t]	
	(400 to 630) °C	0.36 °C + 0.005 [t]	
	(630 to 800) °C	0.38 °C + 0.005 [t]	
Pt 3926 (100 Ω)	(-200 to 0) °C	0.35 °C + 0.005 [t]	
	(0 to 100) °C	0.35 °C + 0.005 [t]	
	(100 to 300) °C	0.35 °C + 0.005 [t]	
	(300 to 400) °C	0.35 °C + 0.005 [t]	
	(400 to 630) °C	0.36 °C + 0.005 [t]	
Pt 3916 (100 Ω)	(-200 to -190) °C	0.38 °C + 0.005 [t]	
	(-190 to -80) °C	0.35 °C + 0.005 [t]	
	(-80 to 0) °C	0.35 °C + 0.005 [t]	
	(0 to 100) °C	0.35 °C + 0.005 [t]	
	(100 to 260) °C	0.35 °C + 0.005 [t]	
	(260 to 300) °C	0.35 °C + 0.005 [t]	
	(300 to 400) °C	0.35 °C + 0.005 [t]	
	(400 to 600) °C	0.35 °C + 0.005 [t]	
Pt 385 (200 Ω)	(-200 to 100) °C	0.35 °C + 0.005 [t]	
	(100 to 260) °C	0.35 °C + 0.005 [t]	
	(260 to 300) °C	0.36 °C + 0.005 [t]	
	(300 to 400) °C	0.36 °C + 0.005 [t]	
	(400 to 600) °C	0.36 °C + 0.005 [t]	
	(600 to 630) °C	0.11 °C + 0.005 [t]	
Pt 385 (500 Ω)	(-200 to -80) °C	0.35 °C + 0.005 [t]	
	(-80 to 100) °C	0.35 °C + 0.005 [t]	
	(100 to 260) °C	0.35 °C + 0.005 [t]	
	(260 to 400) °C	0.35 °C + 0.005 [t]	
	(400 to 600) °C	0.35 °C + 0.005 [t]	
	(600 to 630) °C	0.35 °C + 0.005 [t]	

Parameter/Equipment	Range	CMC ² (±)	Comments
Electrical Simulation of RTDs – (cont)			
Pt 385 (1000 Ω)	(-200 to 0) °C (0 to 100) °C (100 to 260) °C (260 to 300) °C (300 to 600) °C (600 to 630) °C	0.42 °C + 0.005 [t] 0.35 °C + 0.005 [t] 0.35 °C + 0.005 [t] 0.35 °C + 0.005 [t] 0.35 °C + 0.005 [t] 0.38 °C + 0.005 [t]	Fluke 5522A [t] = temperature
PtNi 385 (120 Ω)	(-80 to 100) °C (100 to 260) °C	0.35 °C + 0.005 [t] 0.36 °C + 0.005 [t]	
Cu 427 (10 Ω)	(-100 to 260) °C	0.40 °C + 0.005 [t]	

III. Mechanical

Parameter/Equipment	Range	CMC ^{2,3} (±)	Comments
Force –Impulse Hammers & Dynamic Force Cells	Up to 5000 lbf	0.53 %	Calibrated mass & accelerometers

IV. Time & Frequency

Parameter/Equipment	Range	CMC ^{2,4} (±)	Comments
Frequency – Measuring Equipment/Measure	10 Hz to 1 MHz	0.21 μHz/Hz	Frequency Counter
Frequency – Source	10 Hz to 1 MHz	5 μHz/Hz	Keysight Waveform Generator

¹ This laboratory offers commercial calibration service.

² 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.

³ In the statement of CMC, percentages are percentages of reading, unless otherwise indicated.

⁴ 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. CMCs are expressed as either a specific value that covers the full range or as a fraction/percentage of the reading plus a fixed floor specification.

⁵ This scope meets A2LA's *P112 Flexible Scope Policy*.



Accredited Laboratory

A2LA has accredited

DGI METROLOGY/DIMENSIONAL GAUGE CO.

Inman, SC

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets 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 April 2017*).



Presented this 17th day of April 2026.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4870.01
Valid to June 30, 2028
Revised April 22, 2026

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