SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PYLON ATLANTIC – A DIVISION OF
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CALIBRATION

Valid To: September 30, 2026 Certificate Number: 3630.02

In recognition of the successful completion of the A2LA evaluation process (including an assessment of the organization's compliance with A2LA's Calibration Program Requirements), accreditation is granted to this laboratory to perform the following calibrations[1, 8]:

I. Dimensional

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Hand Tools[3] –			
Calipers (OD/ID/Depth)	Up to 24 in (600 mm)	300 µin (7.7 µm)	Gage blocks
Depth Gages	Up to 6 in (150 mm)	300 µin (7.7 µm)	Gage blocks
Height Gages	Up to 24 in (600 mm)	300 µin (7.7 µm)	Gage blocks
Indicators	Up to 2 in (50 mm)	54 µin (1.4 µm)	Gage Blocks
Micrometers (ID/OD/Depth)	Up to 6 in (150 mm) (6 to 24) in (600 mm)	(31 + 1.2*L*) µin (8 + 4.6*L*) µin	Gage blocks
Length – 1D	Up to 12 in Up to 24 in	(20 + 1*L*) µin 43 µin	ULM Precision height gage with gage block
Flatness – Anvils & Spindles	Up to 0.001 in	10 µin	Optical flat

II. Electrical – DC/Low Frequency

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
DC Voltage[3] – Measure	(0 to 202) mV (0.202 to 2.02) V (2.02 to 20.2) V (20.2 to 202) V (202 to 1050) V	7.5 µV/V + 0.2 µV 2.9 µV/V + 0.3 µV 2.9 µV/V + 0.5 µV 4.3 µV/V + 30 µV 4.4 µV/V + 0.5 mV	8588A
	(0 to 120) mV (0.12 to 1.2) V (1.2 to 12) V (12 to 120) V (120 to 1000) V	11 µV/V + 0.35 µV 9.6 µV/V + 0.34 µV 9.6 µV/V + 0.57 µV 12 µV/V + 35 µV $(12 + (14V/1000)^2)$ µV/V + 120 µV	3458A V = voltage
	(0 to 10) kV (10 to 140) kV	0.034 % + 0.034 V 0.091 % + 0.8 V	Vitrek 4700 w/ HVL-150 probe
DC Voltage[3] – Generate	(0 to 220) mV (0.22 to 2.2) V (2.2 to 11) V (11 to 22) V (22 to 220) V (220 to 1100) V	5.4 µV/V + 0.39 µV 3.1 µV/V + 0.62 µV 2.3 µV/V + 2.3 µV 2.3 µV/V + 3.9 µV 3.1 µV/V + 39 µV 4.7 µV/V + 390 µV	Fluke 5720A
DC Current[3] – Measure	(0 to 20.2) µA (20.2 to 202) µA (0.202 to 2.02) mA (2.02 to 20.2) mA (20.2 to 202) mA (0.202 to 2.02) A (2.02 to 20.2) A (20.2 to 30.2) A	27 µA/A + 0.4 nA 9.8 µA/A + 0.4 nA 9.2 µA/A + 4 nA 14 µA/A + 40 nA 57 µA/A + 1 µA 140 µA/A + 0.1 mA 240 µA/A + 0.4 mA 560 µA/A + 4.4 mA	8588A
	(0 to 120) nA (0.12 to 1.2) µA (1.2 to 12) µA (12 to 120) µA (0.12 to 1.2) mA (1.2 to 12) mA (12 to 120) mA (0.12 to 1.05) A	34 µA/A + 45 pA 23 µA/A + 45 pA 23 µA/A + 110 pA 23 µA/A + 0.91 nA 23 µA/A + 5.7 nA 23 µA/A + 57 nA 40 µA/A + 0.57 µA 120 µA/A + 11 µA	3458A

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
DC Current[3] – Generate	(0 to 220) µA (0.22 to 2.2) mA (2.2 to 22) mA (22 to 220) mA (0.22 to 2.2) A (2.2 to 11) A	33 µA/A + 5.4 nA 27 µA/A + 6.2 nA 27 µA/A + 39 nA 35 µA/A + 0.62 µA 54 µA/A + 12 µA 260 µA/A + 370 µA	5720A w/ 5725A
	(11 to 20.5) A	760 µA/A + 570 µA	Fluke 552X series
Clamp-On Meters	(20 to 149.999) A (150 to 549.999) A (550 to 1025) A	0.58 % + 0.17 A 0.58 % + 0.58 A 0.59 % + 0.58 A	Fluke 552X series w/ Fluke 552XA/coil
Resistance[3] – Measure/Generate	(0 to 2.02) Ω (2.02 to 20.2) Ω (20.2 to 202) Ω 202 Ω to 2.02 kΩ (2.02 to 20.2) kΩ (20.2 to 202) kΩ 202 kΩ to 2.02 MΩ (2.02 to 20.2) MΩ (20.2 to 202) MΩ 202 MΩ to 2.02 GΩ (2.02 to 10) GΩ	17 µΩ/Ω + 4 µΩ 10 µΩ/Ω + 14 µΩ 9.2 µΩ/Ω + 50 µΩ 9.1 µΩ/Ω + 0.5 mΩ 9.2 µΩ/Ω + 5 mΩ 9.3 µΩ/Ω + 50 mΩ 11 µΩ/Ω + 1 Ω 17 µΩ/Ω + 10 Ω 68 µΩ/Ω + 1 kΩ 230 µΩ/Ω + 0.1 MΩ 0.14 % + 10 MΩ	8588A with 552X series calibrator or standard resistors
Resistance[3] – Generate Fixed Points	0 Ω 1 Ω 1.9 Ω 10 Ω 19 Ω 100 Ω 190 Ω 1 kΩ 1.9 kΩ 10 kΩ 19 kΩ 100 kΩ 190 kΩ 1 MΩ 1.9 MΩ 10 MΩ 19 MΩ 100 MΩ	39 µΩ 74 µΩ/Ω 74 µΩ/Ω 19 µΩ/Ω 19 µΩ/Ω 8.5 µΩ/Ω 8.5 µΩ/Ω 7.0 µΩ/Ω 7.0 µΩ/Ω 7.0 µΩ/Ω 7.0 µΩ/Ω 8.5 µΩ/Ω 8.5 µΩ/Ω 14 µΩ/Ω 15 µΩ/Ω 29 µΩ/Ω 36 µΩ/Ω 85 µΩ/Ω	5720A

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Voltage[3] – Measure			
(1 to 12.12) mV	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz	290 µV/V + 1.1 µV 370 µV/V + 1.1 µV 380 µV/V + 1.1 µV 0.3 % + 1.1 µV 1 % + 4 µV 2 % + 4 µV	8588A
(1 to 121.2) mV	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 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	88 µV/V + 0.5 µV 130 µV/V + 0.5 µV 230 µV/V + 1 µV 530 µV/V + 5 µV 0.21 % + 30 µV 1.1 % + 0.1 mV 1.6 % + 0.5 mV 4.1 % + 1 mV 8.4 % + 1 mV 16 % + 1 mV	
(0.01 to 1.212) V	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 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	76 µV/V + 5 µV 130 µV/V + 5 µV 230 µV/V + 10 µV 530 µV/V + 50 µV 0.21 % + 0.3 mV 1 % + 1 mV 1.5 % + 5 mV 4 % + 10 mV 8.2 % + 10 mV 16 % + 10 mV	
(0.1 to 12.12) V	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 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	76 µV/V + 50 µV 130 µV/V + 50 µV 230 µV/V + 100 µV 530 µV/V + 500 µV 0.21 % + 3 mV 1 % + 10 mV 1.5 % + 50 mV 4 % + 100 mV 8.2 % + 100 mV 16 % + 100 mV	

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Voltage[3] – Measure (cont)			
(1 to 121.2) V	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 to 100) kHz (100 to 300) kHz 300 kHz to 1 MHz	90 µV/V + 0.5 mV 110 µV/V + 0.5 mV 230 µV/V + 1 mV 590 µV/V + 5 mV 0.37 % + 50 mV 1.1 % + 0.5 V	8588A
(10 to 1050) V	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz (30 to 100) kHz	110 µV/V + 25 mV 110 µV/V + 25 mV 230 µV/V + 25 mV 590 µV/V + 100 mV	
(0 to 10) kV (10 to 100) kV	60 Hz 60 Hz	0.14 % + 0.11 V 0.57 % + 1.1 V	Vitrek 4700 w/H LV-150 probe
AC Voltage[3] – Generate			
(0.2 to 2.2) mV	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	210 µV/V + 3.9 µV 81 µV/V + 3.9 µV 70 µV/V + 3.9 µV 180 µV/V + 3.9 µV 420 µV/V + 4.7 µV 930 µV/V + 9.3 µV 1200 µV/V + 19 µV 2400 µV/V + 19 µV	5720A w/ 5725A
(2.2 to 22) mV	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	210 µV/V + 3.9 µV 81 µV/V + 3.9 µV 70 µV/V + 3.9 µV 180 µV/V + 3.9 µV 420 µV/V + 4.7 µV 930 µV/V + 9.3 µV 1200 µV/V + 19 µV 2400 µV/V + 19 µV	

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Voltage[3] – Generate (cont)			
(22 to 220) mV	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	210 µV/V + 12 µV 81 µV/V + 6.2 µV 70 µV/V + 6.2 µV 180 µV/V + 6.2 µV 420 µV/V + 16 µV 700 µV/V + 19 µV 1200 µV/V + 23 µV 2200 µV/V + 47 µV	5720A w/ 5725A
(0.22 to 2.2) V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	210 µV/V + 39 µV 78 µV/V + 16 µV 36 µV/V + 7.8 µV 66 µV/V + 9.3 µV 97 µV/V + 31 µV 330 µV/V + 78 µV 850 µV/V + 190 µV 1400 µV/V + 470 µV	
(2.2 to 22) V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	210 µV/V + 390 µV 78 µV/V + 160 µV 36 µV/V + 54 µV 66 µV/V + 93 µV 89 µV/V + 190 µV 240 µV/V + 620 µV 850 µV/V + 1900 µV 1200 µV/V + 3100 µV	
(22 to 220) V	(10 to 20) Hz (20 to 40) Hz 40 Hz to 20 kHz (20 to 50) kHz (50 to 100) kHz (100 to 300) kHz (300 to 500) kHz 500 kHz to 1 MHz	210 µV/V + 3.9 mV 78 µV/V + 1.6 mV 47 µV/V + 0.54 mV 74 µV/V + 0.93 mV 130 µV/V + 2.3 mV 780 µV/V + 16 mV 4000 µV/V + 39 mV 7000 µV/V + 78 mV	

Parameter/Range	Frequency	CMC[2, 5, 6] (±)	Comments
AC Voltage[3] – Generate (cont)			
(220 to 700) V	(15 to 40) Hz 40 Hz to 1 kHz (1 to 20) kHz (20 to 30) kHz (30 to 50) kHz (50 to 100) kHz	62 µV/V + 3.1 mV 62 µV/V + 3.1 mV 97 µV/V + 4.7 mV 280 µV/V + 8.5 mV 280 µV/V + 8.5 mV 1000 µV/V + 35 mV	5720A w/ 5725A
(700 to 1000) V	40 Hz to 1 kHz (1 to 20) kHz (20 to 30) kHz	70 µV/V + 3.1 mV 130 µV/V + 4.7 mV 470 µV/V + 8.5 mV	
Wideband AC Voltage Flatness:			
1.1 mV	(10 to 30) Hz 30 Hz to 120 kHz 120 kHz to 2 MHz (2 to 10) MHz (10 to 20) MHz (20 to 30) MHz	0.23 % 0.078 % 0.16 % + 2.3 µV 0.31 % + 2.3 µV 0.47 % + 2.3 µV 1.2 % + 12 µV	5720A wideband
3 mV	(10 to 30) Hz 30 Hz to 120 kHz 120 kHz to 2 MHz (2 to 10) MHz (10 to 20) MHz (20 to 30) MHz	0.23 % 0.078 % 0.078 % + 2.3 µV 0.23 % + 2.3 µV 0.39 % + 2.3 µV 1.2 % + 2.3 µV	
11 mV to 3.5 V	(10 to 30) Hz 30 Hz to 120 kHz 120 kHz to 2 MHz (2 to 10) MHz (10 to 20) MHz (20 to 30) MHz	0.23 % 0.078 % 0.078 % + 2.3 µV 0.16 % + 2.3 µV 0.31 % + 2.3 µV 0.78 % + 2.3 µV	

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Current[3] – Measure			
(0.202 to 20.2) µA	1 Hz to 2 kHz (2 to 10) kHz	0.21 % + 2.5 nA 0.21 % + 2.5 nA	8588A
(20.2 to 202) µA	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz	280 µA/A + 5 nA 530 µA/A + 5 nA 740 µA/A + 5 nA	
(0.202 to 2.02) mA	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz	280 µA/A + 50 nA 530 µA/A + 50 nA 740 µA/A + 50 nA	
(2.02 to 20.2) mA	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz	280 µA/A + 0.5 µA 530 µA/A + 0.5 µA 740 µA/A + 0.5 µA	
(20.2 to 202) mA	1 Hz to 2 kHz (2 to 10) kHz (10 to 30) kHz	280 µA/A + 5 µA 520 µA/A + 5 µA 740 µA/A + 5 µA	
(0.202 to 2.02) A	1 Hz to 2 kHz (2 to 10) kHz	300 µA/A + 0.1 mA 550 µA/A + 0.1 mA	
(2.02 to 20.2) A	10 Hz to 2 kHz (2 to 10) kHz	840 µA/A + 0.5 mA 840 µA/A + 0.5 mA	
(20.2 to 30.2) A	10 Hz to 2 kHz (2 to 10) kHz	840 µA/A + 12 mA 0.13 % + 12 mA	
AC Current[3] – Generate			
(29 to 329.99) µA	(10 to 20) Hz (20 to 45) Hz 45 to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.15 % + 0.076 µA 0.11 % + 0.076 µA 0.095 % + 0.076 µA 0.23 % + 0.11 µA 0.61 % + 0.15 µA 1.2 % + 0.3 µA	552X series calibrator

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Current[3] – Generate (cont)			
(0.33 to 3.2999) mA	(10 to 20) Hz (20 to 45) Hz 45 to 1 kHz (1 to 5) kHz (5 to 10) kHz (10 to 30) kHz	0.15 % + 0.11 µA 0.095 % + 0.11 µA 0.076 % + 0.11 µA 0.15 % + 0.15 µA 0.38 % + 0.23 µA 0.76 % + 0.46 µA	552X series calibrator
(3.3 to 32.999) 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	0.14 % + 1.5 µA 0.068 % + 1.5 µA 0.03 % + 1.5 µA 0.061 % + 1.5 µA 0.15 % + 2.3 µA 0.3 % + 3 µA	
(33 to 329.99) 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	0.14 % + 15 µA 0.068 % + 15 µA 0.03 % + 15 µA 0.076 % + 38 µA 0.15 % + 76 µA 0.3 % + 150 µA	
(0.33 to 1.09999) A	(10 to 45) Hz 45 to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.14 % + 76 µA 0.038 % + 76 µA 0.46 % + 760 µA 1.9 % + 3800 µA	
(1.1 to 2.99999) A	(10 to 45) Hz 45 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	0.14 % + 76 µA 0.046 % + 76 µA 0.46 % + 760 µA 1.9 % + 3800 µA	
(3 to 10.9999) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.046 % + 1500 µA 0.076 % + 1500 µA 2.3 % + 1500 µA	
(11 to 20.5) A	(45 to 100) Hz 100 Hz to 1 kHz (1 to 5) kHz	0.091 % + 3800 µA 0.11 % + 3800 µA 2.3 % + 3800 µA	

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Current[3] – Generate (cont)			
220 µA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	220 µA/A + 16 nA 140 µA/A + 9.3 nA 100 µA/A + 7.8 nA 250 µA/A + 12 nA 850 µA/A + 62 nA	5720A w/ 5725A
2.2 mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	220 µA/A + 39 nA 140 µA/A + 31 nA 100 µA/A + 31 nA 170 µA/A + 100 nA 850 µA/A + 620 nA	
22 mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	220 µA/A + 390 nA 140 µA/A + 310 nA 100 µA/A + 310 nA 170 µA/A + 540 nA 850 µA/A + 4700 nA	
220 mA	(10 to 20) Hz (20 to 40) Hz 40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	220 µA/A + 3.9 µA 140 µA/A + 3.1 µA 100 µA/A + 2.3 µA 170 µA/A + 3.1 µA 850 µA/A + 9.3 µA	
2.2 A	20 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	230 µA/A + 31 µA 360 µA/A + 78 µA 5400 µA/A + 160 µA	
11 A	40 Hz to 1 kHz (1 to 5) kHz (5 to 10) kHz	310 µA/A + 130 µA 660 µA/A + 290 µA 2600 µA/A + 580 µA	
Clamp-On Meters: (Toroidal Type)			
(20 to 54.999) A (55 to 149.999) A (150 to 1025) A	(45 to 65) Hz	0.31 % + 0.054 A 0.34 % + 0.042 A 0.34 % + 0.13 A	552X series w/ 5500A/coil
(20 to 54.999) A (55 to 149.999) A (150 to 400) A	(65 to 440) Hz	0.93 % + 0.054 A 0.94 % + 0.046 A 1.2 % + 0.22 A	

Parameter/Range	Frequency	CMC[2, 5] (±)	Comments
AC Current[3] – Generate (cont)			
Clamp-On Meters: (Non-Toroidal Type)			
(20 to 149.999) A (150 to 549.999) A (550 to 1025) A	(45 to 65) Hz	0.65 % + 0.30 A 0.66 % + 1.1 A 0.65 % + 1.1 A	552X series w/ 5500A/coil
(20 to 149.999) A (150 to 400) A	(65 to 440) Hz	1.2 % + 0.30 A 1.4 % + 1.1 A	

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Capacitance – Measure/Generate	(0 to 2.02) nF (1.8 to 20.2) nF (18 to 202) nF (0.18 to 2.02) µF (1.8 to 20.2) µF (18 to 202) µF (0.18 to 2.02) mF (1.8 to 20.2) mF (18 to 202) mF	0.19 % + 1 pF 810 µF/F + 2 pF 490 µF/F + 10 pF 420 µF/F + 0.1 nF 420 µF/F + 1 nF 620 µF/F + 10 nF 620 µF/F + 0.1 µF 720 µF/F + 1 µF 720 µF/F + 10 µF	8588A with 552X series calibrator
Electrical Simulation of Thermocouples & Thermocouple Indicating Devices[3] – Generate			
Type B	(600 to 800) °C (800 to 1000) °C (1000 to 1550) °C (1550 to 1820) °C	0.33 °C 0.26 °C 0.23 °C 0.25 °C	Fluke 552X series calibrator
Type E	(-250 to -100) °C (-100 to -25) °C (-25 to 350) °C (350 to 650) °C (650 to 1000) °C	0.38 °C 0.12 °C 0.11 °C 0.12 °C 0.16 °C	

Parameter/Equipment	Range	CMC[2] (±)	Comments
Electrical Simulation of Thermocouples & Thermocouple Indicating Devices[3] – Generate (cont)			
Type J	(-210 to -100) °C (-100 to -30) °C (-30 to 150) °C (150 to 760) °C (760 to 1200) °C	0.21 °C 0.12 °C 0.11 °C 0.13 °C 0.18 °C	Fluke 552X series calibrator
Type K	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 1000) °C (1000 to 1372) °C	0.25 °C 0.14 °C 0.12 °C 0.2 °C 0.3 °C	
Type N	(-200 to -100) °C (-100 to -25) °C (-25 to 120) °C (120 to 410) °C (410 to 1300) °C	0.3 °C 0.17 °C 0.14 °C 0.14 °C 0.21 °C	
Type R	(0 to 250) °C (250 to 400) °C (400 to 1000) °C (1000 to 1767) °C	0.43 °C 0.27 °C 0.25 °C 0.30 °C	
Type S	(0 to 250) °C (250 to 1000) °C (1000 to 1400) °C (1400 to 1767) °C	0.36 °C 0.27 °C 0.28 °C 0.35 °C	
Type T	(-250 to -150) °C (-150 to 0) °C (0 to 120) °C (120 to 400) °C	0.48 °C 0.18 °C 0.12 °C 0.11 °C	

Parameter/Equipment	Range	CMC[2, 5, 6] (±)	Comments
Electrical Simulation of RTD Indicators & Indicating Systems[3] –			
Pt 385, 100 Ω	(-200 to -80) °C (-80 to 0) °C (0 to 100) °C (100 to 300) °C (300 to 400) °C (400 to 630) °C (630 to 800) °C	0.038 °C 0.038 °C 0.053 °C 0.068 °C 0.076 °C 0.091 °C 0.18 °C	Fluke 552X series calibrator
Oscilloscopes[3] –			
Amplitude – DC Signal			
50 Ω Load 1 MΩ Load	(0 to 6.6) V (0 to 130) V	0.19 % + 30 µV 0.038 % + 30 µV	552XA/SC1100
Amplitude – Square Wave			
50 Ω Load	1 mV to 6.6 Vpp 10 Hz to 10 kHz	0.19 % + 30 µV	
1 MΩ Load	1 mV to 130 Vpp 10 Hz to 10 kHz	0.076 % + 30 µV	
Bandwidth Flatness	50 kHz to 100 MHz (100 to 300) MHz (300 to 600) MHz (600 to 1100) MHz	1.1 % + 76 µV 1.5 % + 76 µV 3.0 % + 76 µV 3.8 % + 76 µV	
Time Marker	5 s to 50 ms 20 ms to 1 ns	19 µs/s + 760 µs/s * *t* 1.9 µs/s	*t* = time in seconds
Resistance – Measure	40 to 60 Ω (0.5 to 1.5) MΩ	0.076 % 0.076 %	

III. Mechanical

Parameter/Equipment	Range	CMC[2, 4, 6] (±)	Comments
Pneumatic & Hydraulic Gage Pressure[3]	(30 to 15 000) psig	0.11 %	Digital pressure standard
Pneumatic Pressure			
Absolute	Up to 15 psia	0.0079 psia	MENSOR CPG2500
Gauge	(-15 to 150) psig (150 to 1000) psig	0.0079 psig 0.0096 %	
Torque Wrenches[3]	(10 to 100) ozf-in (2 to 250) lbf-in (10 to 100) lbf-ft (25 to 250) lbf-ft (100 to 1000) lbf-ft	1.2 % 0.65 % 0.76 % – 0.002T 0.54 % + 0.000 17T 0.52 % + 0.000 03T	Norbar 43236 torque standard
Scales & Balances[3]	Up to 30 kg Up to 1000 lbs	3.5M mg 0.12 %	S class weights F class weights
Load Cells[3, 10]	Up to 60 000 lbf	0.018 %	Load cells
Force Gauges	(0.002 to 400) lbf	0.024 %	Class 3 weights
Aircraft Scales[10]	Up to 25 000 lbs (25 000 to 60 000) lbs	0.018 % 0.014 %	Load cells
Mass	(1 to 41) g (41 to 120) g (121 to 3000) g (3001 to 30 000) g	(0.05 + 0.007M) mg (0.12 + 0.007M) mg (3 + 0.003M) mg (19 + 0.001M) mg	Class 1 weights, mass comparator, analytical balance

Parameter/Equipment	Range	CMC[2, 4, 6] (±)	Comments
Torque Testers	(0 to 250) lbf-ft (250 to 5000) lbf-ft	0.028 % 0.033 %	Torque arms & weights
Cable Tensiometers	(10 to 560) lbf (5 to 500) lbf (5 to 200) lbf	(0.0023 + 0.0044T) lbf (0.05 + 0.006T) lbf 0.15 lbf	Starrett FMS2500 King Nutronics Class 3 weights
Anemometers Hot Wire Vane	 (1.5 to 40) m/s (1.5 to 28) m/s	 0.29 m/s 0.29 m/s	 Temp probe, manometer, humidity sensor

IV. Thermodynamics

Parameter/Equipment	Range	CMC[2, 9] (±)	Comments
Temperature – Measuring Equipment	(5 to 70) °C (-20 to 100) °C Ambient to 250 °C	0.14 °C 0.03 °C 0.38 °C	Thunder Scientific 2500 Temperature bath & Fluke PRT w/1502A
Relative Humidity – Measuring Equipment	(20 to 80) % RH	0.63 % RH	Thunder Scientific 2500

V. Time & Frequency

Parameter/Equipment	Range	CMC[2, 6, 9] (±)	Comments
Frequency[3] – Measure	(1 to 40) Hz 40 Hz to 10 MHz	0.057 % 0.011 %	Agilent 3458A

Parameter/Equipment	Range	CMC[2, 5, 6, 9] (±)	Comments
Frequency[3] – Measuring Equipment	0.01 Hz to 2 MHz Up to 500 MHz	2 µHz/Hz + 3.9 µHz 2 µHz/Hz	Fluke 5522A Fluke 5522A/SC1100

[1] This laboratory offers commercial calibration service and field calibration service where noted.

[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] Field calibration service is available for this calibration. 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.

[4] In the statement of CMC, L is the numerical value of the nominal length of the device measured in inches for Imperial units, or in millimeters for metric units. M is the numerical value of the nominal weight measured in Kg (Mass, Scales). T is the numerical value of the nominal torque in lb·ft (Torque Wrenches).

[5] 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's are expressed as either a specific value that covers the full range or as a percent or fraction of the reading plus a fixed floor specification.

[6] In the statement of CMC, percentages are to be read as percent of reading, unless otherwise noted.

[7] This laboratory meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program for the types of dimensional tests listed above and is considered equivalent to that of a calibration.

[8] This scope meets A2LA's *P112 Flexible Scope Policy*.

[9] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

[10] The contributions attributed to the repeatability of the "best existing device" are not included in the CMC claim.

Accredited Laboratory

A2LA has accredited

PYLON ATLANTIC – A DIVISION OF PYLON ELECTRONICS INC.

Dartmouth, NS, CANADA

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 18th day of October 2024.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3630.02
Valid to September 30, 2026

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