An Axiometrix Solutions Brand

Calibration Services
9290 SW Nimbus Ave
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USA

ACCREDITED

Calibration Report

Accredited Calibration

Report Number: APx1701-XXXXX-XXXXX-X

Model: APx1701 **Data Type:** **AS SHIPPED, NEW** **Program:**
Serial Number: APX17-XXXXX **Date of Cal:** 10-Apr-2026 APxCalibration.exe 24.01

Internal Module Status and Data			
AP Name	***Description***	***Serial No.***	***Revision***
ASRN	USB Interface Module	XXXXX	101
ATTN	Dual Power Amplifer	XXXXX	300

An Audio Precision APx555 Audio Analyzer is used as a signal source for all measurements, and for all Noise and THD+N measurements..

APx555 Serial #	APx55-XXXXX
APx555 Cal Date	28-Jan-2026

Explanatory notes to the last three columns of the calibration report

"MU" - The column labeled "MU" lists the expanded measurement uncertainties derived from equipment specifications, repeatability data, and other significant sources. These are stated at a minimum confidence of 95% using a coverage factor k=2 (except as appropriate) following the recommendations in ISO/IEC 98-3 *Guide to the expression of uncertainty in measurement (GUM:1995)* , BIPM JCGM 100:2008, and NIST Technical Note 1297.

"TUR" - The column labeled "**TUR**" lists the test uncertainty ratio calculated by dividing the lesser of the lower and upper reading tolerances by the 95% expanded measurement uncertainty. An entry of "**na**" indicates [1] the specified limits are one-sided, or [2] the performance characteristic is not accredited.

"Result" - The column labeled "Result" lists color-coded assessments that the observed characteristic is within its specified limits of performance. There are three possible indications:

pass -- *The READING is within the specified upper and lower limits reduced by guard-bands equal to the 95% expanded measurement uncertainty. The probability or risk of false acceptance is very low, typically <0.2%.*

uncertain -- *The READING is within the specified upper and lower limits, but it is close to one of the limits by an amount that is less than the 95% expanded measurement uncertainty. The probability or risk of false acceptance is elevated.*

>> FAIL << -- *The READING is outside of the specified limit range.*

Accredited measurements listed in the following pages correlate to Audio Precision's Scope of Accreditation as noted:

note 1 - Frequency Measurement
note 2 - AC Voltage Measurement
note 3 - AC Flatness Measurement
note 4 - Resistance Measurement
note 5 - DC Voltage Measurement
note 6 - AC Voltage Source and AC Flatness Source for testing AC Measurement Equipment
note 7 - DC Voltage Source for testing DC Measurement Equipment

This report is valid only when accompanied by a signed Certificate of Calibration.

Uncertainty Calcs: 201804

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
ACCREDITED CHARACTERISTICS							
[1] Gain Accuracy, no load (dB) - *note 2*							
Chan 1	1 kHz	19.950	**20.000**	20.050	0.005	≥10	**pass**
Chan 2	1 kHz	19.950	**20.000**	20.050	0.005	≥10	**pass**
[2] Output Flatness, 4 Ohm load, 1.10 Vrms (dB) - *note 3*							
Chan 1	10 Hz	-0.080	**0.000**	0.080	0.010	8.0	**pass**
	10 kHz	-0.080	**-0.005**	0.080	0.009	8.9	**pass**
	20 kHz	-0.080	**-0.019**	0.080	0.009	8.9	**pass**
	50 kHz	-0.300	**-0.098**	0.300	0.016	≥10	**pass**
	100 kHz	-0.800	**-0.323**	0.800	0.061	≥10	**pass**
Chan 2	10 Hz	-0.080	**0.000**	0.080	0.010	8.0	**pass**
	10 kHz	-0.080	**-0.006**	0.080	0.009	8.9	**pass**
	20 kHz	-0.080	**-0.019**	0.080	0.009	8.9	**pass**
	50 kHz	-0.300	**-0.096**	0.300	0.016	≥10	**pass**
	100 kHz	-0.800	**-0.315**	0.800	0.061	≥10	**pass**
[3] Output Current Measurement Error, 1 kHz, 1 A (%) - *note 2*							
Chan 1		-0.50	**-0.07**	0.50	0.07	7.1	**pass**
Chan 2		-0.50	**-0.14**	0.50	0.07	7.1	**pass**
[4] DC Offset (mVDC) - *note 5*							
Chan 1		-5.00	**-0.11**	5.00	0.20	≥10	**pass**
Chan 2		-5.00	**-1.47**	5.00	0.20	≥10	**pass**

Item	Setting(s)	Lower Limit	READING	Upper Limit	MU	TUR	Result
NON-ACCREDITED CHARACTERISTICS							
[5] Microphone Input Crosstalk, 20 kHz (dB), non-accredited, self-test							
Unbalanced	mic input 1 driven	-999.00	**-80.90**	-78.00	0.21	na	**pass**
	mic input 2 driven	-999.00	**-80.89**	-78.00	0.21	na	**pass**
Balanced	mic input 1 driven	-999.00	**-119.08**	-78.00	0.21	na	**pass**
	mic input 2 driven	-999.00	**-119.07**	-78.00	0.21	na	**pass**
[6] Residual Noise, (uVolts) - non-accredited, self-test							
A-Weighted	Chan 1	0	**3.91**	6.00	0.20	na	**pass**
	Chan 2	0	**3.88**	6.00	0.20	na	**pass**
22 kHz BW	Chan 1	0	**5.27**	7.50	0.30	na	**pass**
	Chan 2	0	**5.26**	7.50	0.30	na	**pass**
80 kHz BW	Chan 1	0	**9.09**	13.00	0.50	na	**pass**
	Chan 2	0	**9.08**	13.00	0.50	na	**pass**
500 kHz BW	Chan 1	0	**22.4**	30.0	1.0	na	**pass**
	Chan 2	0	**22.6**	30.0	1.0	na	**pass**
[7] Sine THD+N, 8Ω Load, (dB), non-accredited, self-test							
Chan 1	10Hz, 80kBW, 100W	-999	**-115.4**	-100.0	1.1	na	**pass**
	1kHz, 80kBW, 100W	-999	**-115.4**	-100.0	1.1	na	**pass**
	10kHz, 80kBW, 100W	-999	**-115.2**	-100.0	1.1	na	**pass**
	20kHz, 80kBW, 100W	-999	**-114.2**	-100.0	1.1	na	**pass**
	50kHz, 500kBW, 100W	-999	**-102.6**	-80.0	1.2	na	**pass**
	100kHz, 500kBW, 95W	-999	**-95.3**	-80.0	1.2	na	**pass**
Chan 2	10Hz, 80kBW, 100W	-999	**-115.1**	-100.0	1.1	na	**pass**
	1kHz, 80kBW, 100W	-999	**-114.9**	-100.0	1.1	na	**pass**
	10kHz, 80kBW, 100W	-999	**-114.3**	-100.0	1.1	na	**pass**
	20kHz, 80kBW, 100W	-999	**-112.6**	-100.0	1.1	na	**pass**
	50kHz, 500kBW, 100W	-999	**-102.4**	-80.0	1.2	na	**pass**
	100kHz, 500kBW, 95W	-999	**-95.3**	-80.0	1.2	na	**pass**
[8] Sine THD+N, 4Ω Load, (dB), non-accredited, self-test							
Chan 1	10Hz, 80kBW, 60W	-999	**-114.7**	-100.0	1.1	na	**pass**
	1kHz, 80kBW, 60W	-999	**-114.6**	-100.0	1.1	na	**pass**
	10kHz, 80kBW, 60W	-999	**-114.5**	-100.0	1.1	na	**pass**
	20kHz, 80kBW, 60W	-999	**-112.3**	-100.0	1.1	na	**pass**
	50kHz, 500kBW, 60W	-999	**-101.8**	-80.0	1.2	na	**pass**
	100kHz, 500kBW, 55W	-999	**-95.8**	-80.0	1.2	na	**pass**
Chan 2	10Hz, 80kBW, 60W	-999	**-114.4**	-100.0	1.1	na	**pass**
	1kHz, 80kBW, 60W	-999	**-114.6**	-100.0	1.1	na	**pass**
	10kHz, 80kBW, 60W	-999	**-112.2**	-100.0	1.1	na	**pass**
	20kHz, 80kBW, 60W	-999	**-108.9**	-100.0	1.1	na	**pass**
	50kHz, 500kBW, 60W	-999	**-100.4**	-80.0	1.2	na	**pass**
	100kHz, 500kBW, 55W	-999	**-95.8**	-80.0	1.2	na	**pass**
[9] Maximum Output at 0.1% THD+N, 1 kHz (Vrms, Watts), non-accredited							
Both Chans, 16Ω	Ch 1	30.00	**30.36**		0.12	na	**pass**
Vrms	Ch 2	30.00	**30.37**		0.12	na	**pass**
Single Chan, 8 Ω	Ch 1	100.00	**108.38**		0.81	na	**pass**
Watts	Ch 2	100.00	**108.48**		0.81	na	**pass**
Single Chan, 4Ω	Ch 1	60.00	**66.25**		0.58	na	**pass**
Watts	Ch 2	60.00	**66.23**		0.58	na	**pass**

END OF REPORT