

**ACS 100**  
Audiometer Calibration System

# Sample Screens




Select the company and the audiometer you want to calibrate

**Audiometer Info** [X]

**Audiometer Information**

Model: Siemens Unity

Serial Number: 1234



**Headphones**

Model: Telephonics TDH-39/39P

Serial Number: Left: 1234 Right: 1234

**Insert Earphones**

Model: Auditory Systems Eartone 5A

Serial Number: Left: 5a10011937 Right: 5a10011938

**Bone Oscillator**

Model: Radio Ear Model B-71

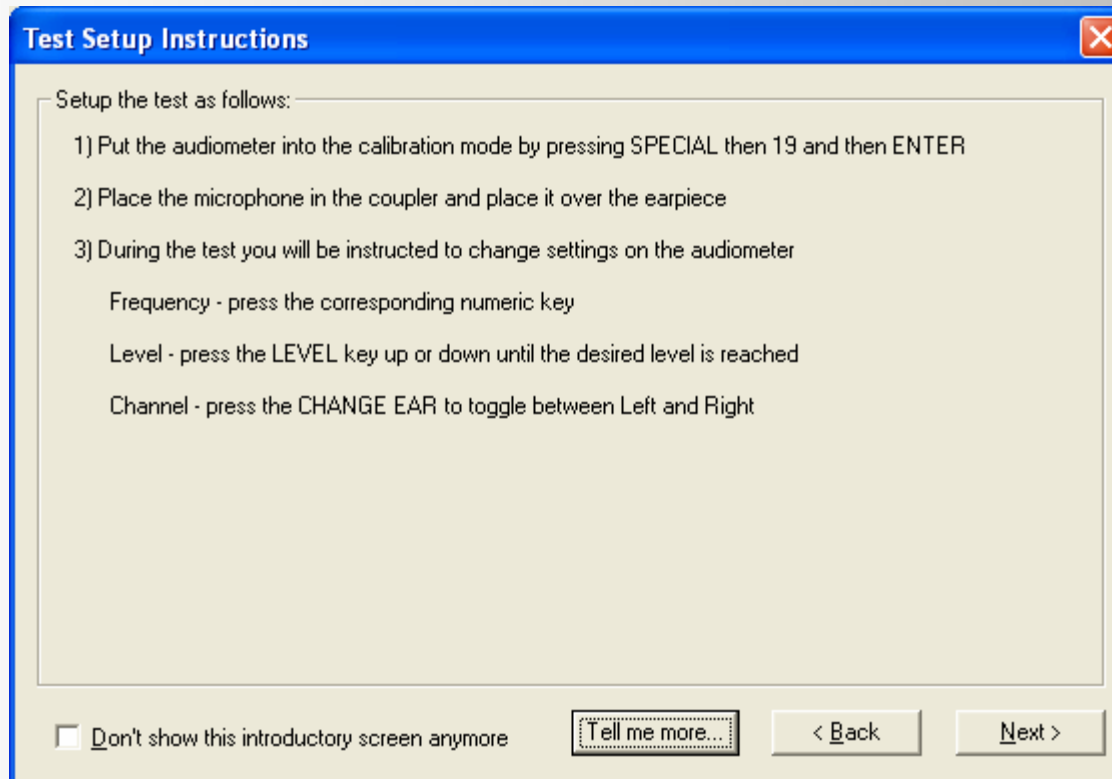
Serial Number: 1234

**Notes**

This audiometer is simple to calibrate with the ACS 100 calibration system.

Configure Tests...  
 Help  
 OK  
 Cancel

The ACS system remembers which audiometers use 10, 50, 100 or 300 ohm headphones. Store the serial numbers for not only the audiometer but the headphones, inserts and bone.

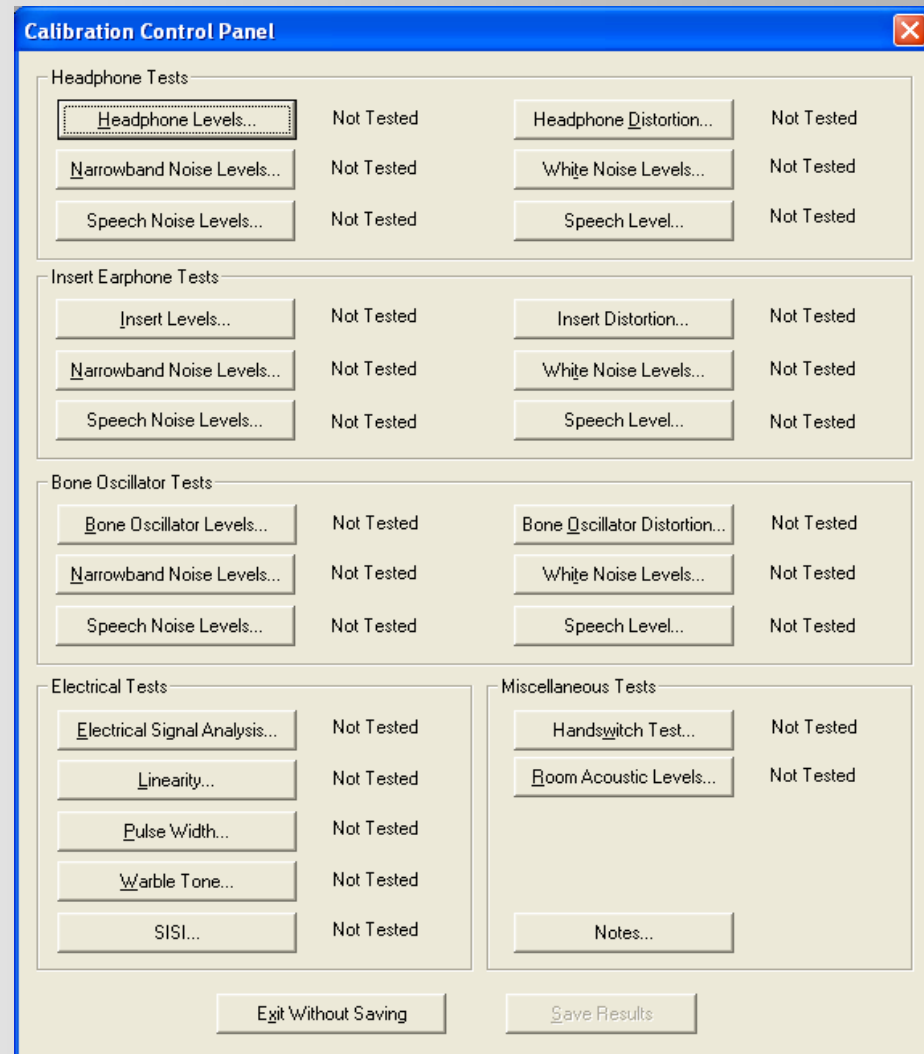


The ACS system displays calibration setup information specific to the audiometer you are calibrating.

The ACS system allows you to choose the test you want to perform.

Simply click on the test and the ACS system prompts you through the rest.

Put the ACS system in the fully controlled mode and watch as the ACS system controls the audiometer and adjusts levels.



The ACS system not only collects the data but it graphics it as well. If the **green** line is between the **red** lines you know the audiometer is in calibration.

All the measurements are done in real time. The ACS system will even wait for you to adjust audiometer before moving on to the next test.

The ACS system allows you to set the precise threshold for calibration; down to 1/10th of a dB.

### Headphone Output Level Test

**Audiometer Settings**

Frequency (Hz)  
**125**

Level (dB)  
**60**

Tone  
**On**

Test Channel  
**Right**

**Test Control**

Ready to start

Oscillator Channel:  
 Oscillator 1  
 Oscillator 2

Test Channel:  
 Left Channel  
 Right Channel

Test Mode:  
 Automatic  
 Manual

**Measured Values**

Frequency (Hz)  
-----

Level (RETSPL)  
-----

Level (dB)  
-----

Delta (dB)  
-----

Test Freq (Hz)	Test Level (dB)	Level (RETSPL)	Measured Level (SPL)	Delta Level (dB)
125	60	105.0	105.0	-0.0
250	70	95.5	95.4	-0.1
500	70	81.5	81.6	0.1
750	70	78.0	78.0	0.0
1000	70	77.0	77.1	0.1
1500	70	76.5	76.5	0.0
2000	70	79.0	78.9	-0.1
3000	70	80.0	79.9	-0.1
4000	70	79.5	79.4	-0.1
6000	70	85.5	85.3	-0.2
8000	65	78.0	77.9	-0.1

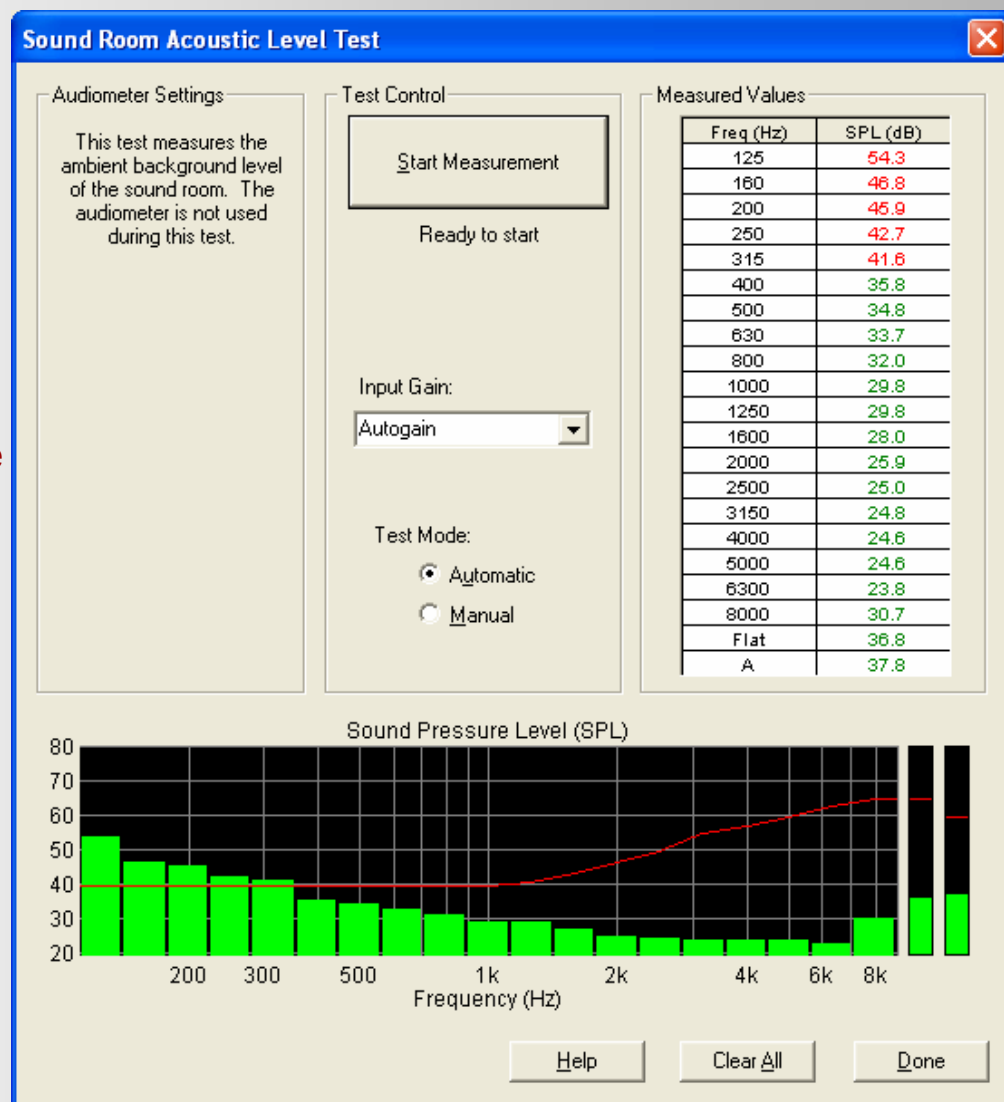
To jump to a frequency in the table, double click on it

**Sound Pressure Level (SPL)**

The ACS system will perform an ambient background noise level check of the sound room.

Simple to read.

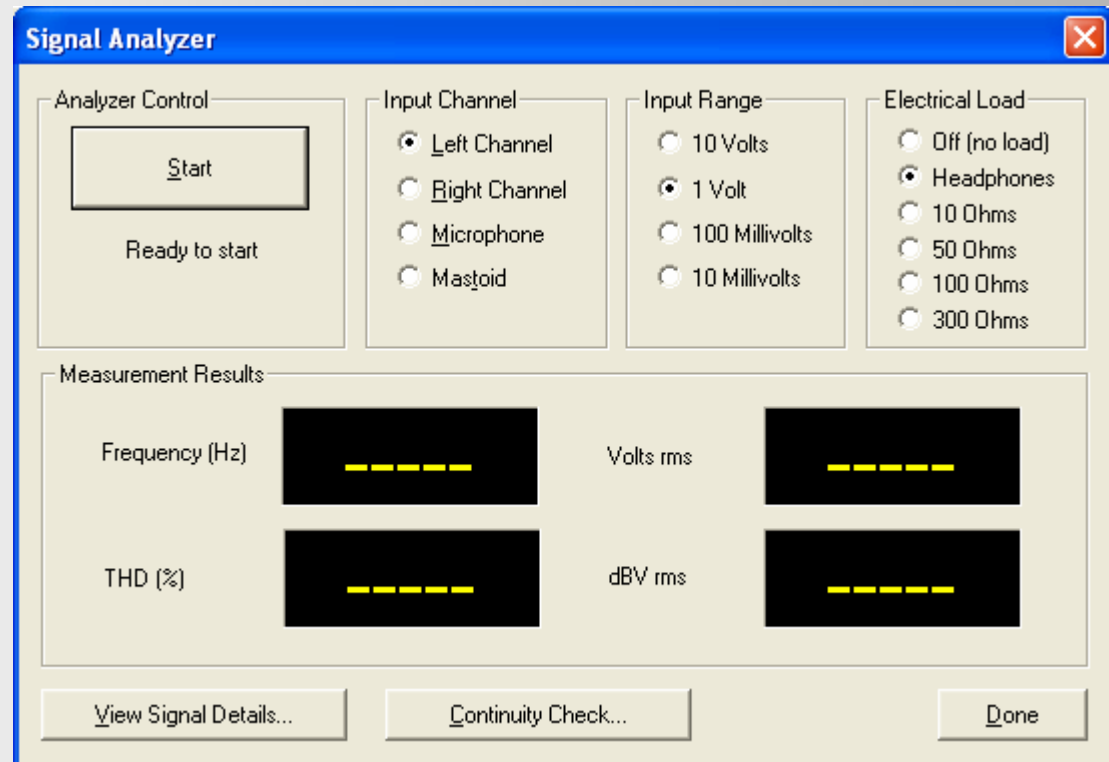
No small LCD screens here.



The ACS system comes standard with a signal analyzer.

Trouble shoot that problem audiometer fast.

The ACS system will even allow you to export the signal data so you can plot and graph the data yourself.



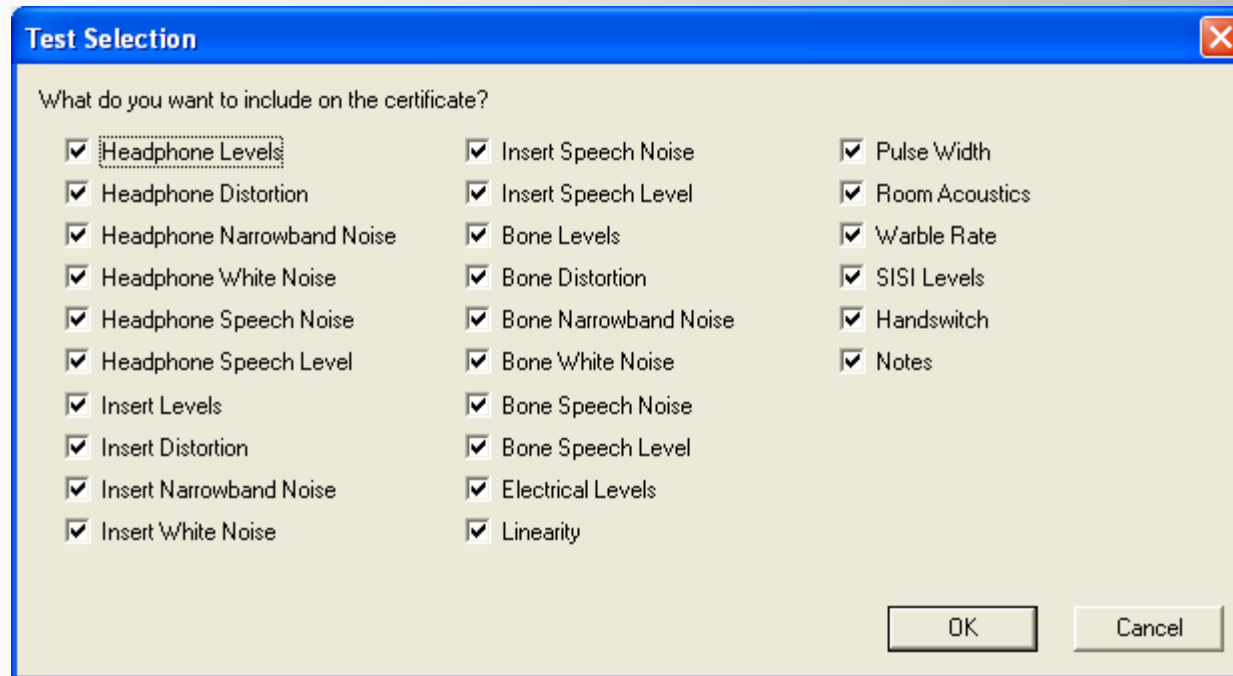
The ACS system automatically tells you if the audiometer has **Passed** or **Failed** calibration based on ANSI standards.

The ACS system will even alert you if you have forgotten to perform a required test.

The screenshot shows the 'Calibration Control Panel' window with the following test results:

Test Category	Test Name	Result
Headphone Tests	Headphone Levels...	Test Passed
	Headphone Distortion...	Test Passed
	Narrowband Noise Levels...	Test Passed
	White Noise Levels...	Test Passed
	Speech Noise Levels...	Test Passed
	Speech Level...	Test Passed
Insert Earphone Tests	Insert Levels...	Test Passed
	Insert Distortion...	Test Passed
	Narrowband Noise Levels...	Test Passed
	White Noise Levels...	Test Passed
	Speech Noise Levels...	Test Passed
	Speech Level...	Test Passed
Bone Oscillator Tests	Bone Oscillator Levels...	Test Passed
	Bone Oscillator Distortion...	Test Passed
	Narrowband Noise Levels...	Test Failed
	White Noise Levels...	Test Failed
	Speech Noise Levels...	Test Failed
	Speech Level...	Test Passed
Electrical Tests	Electrical Signal Analysis...	Test Passed
	Linearity...	Test Passed
	Pulse Width...	Test Passed
	Warble Tone...	Test Passed
	SISI...	Test Passed
Miscellaneous Tests	Handswitch Test...	Not Tested
	Room Acoustic Levels...	Incomplete

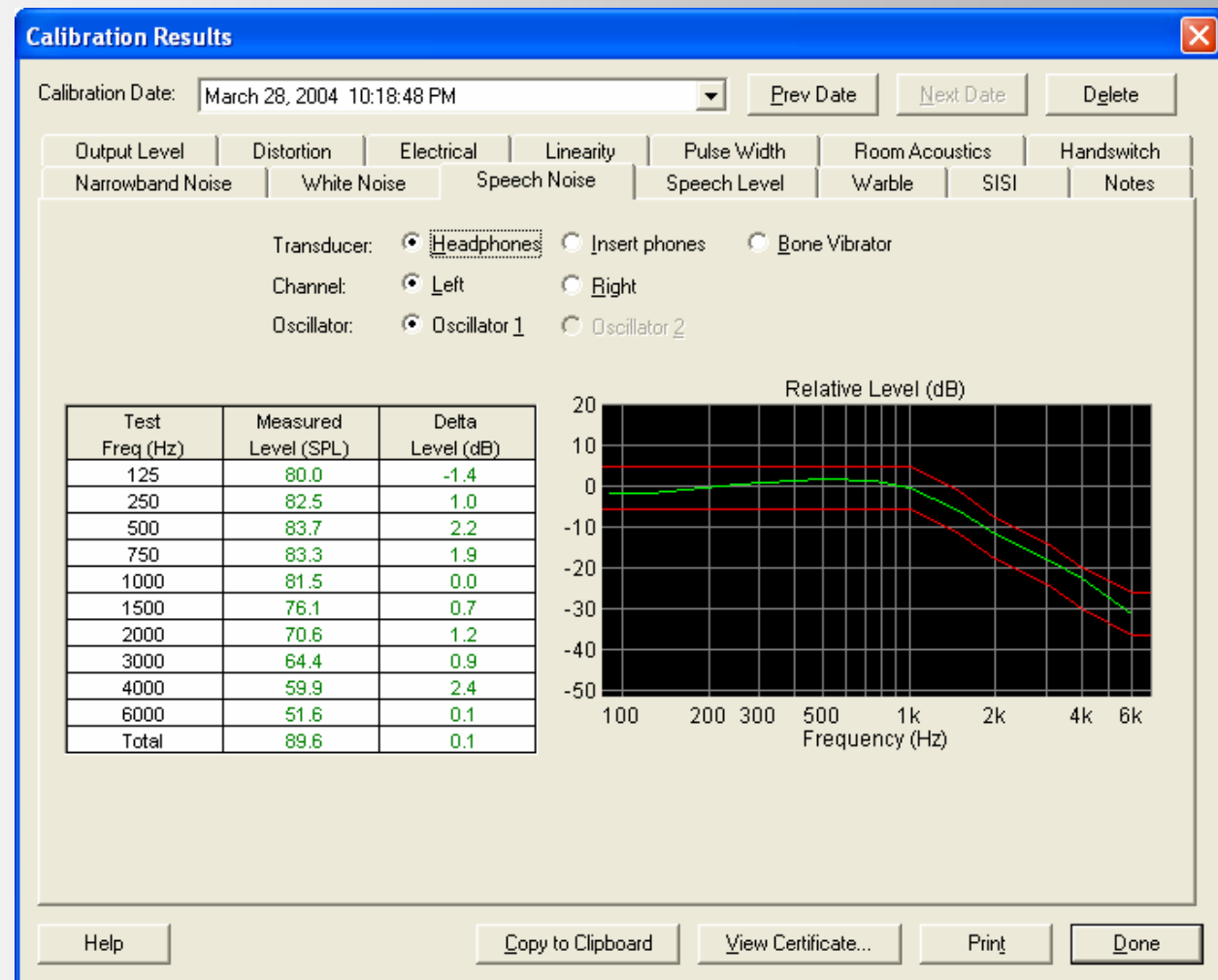
Buttons at the bottom: Exit Without Saving, Save Results, Notes...




Customize your calibration certificate. Choose the tests that you want to appear on the certificate. If you do not want a particular test to appear the ACS system will arrange the data so there won't be a gap on the certificate. You can even insert our own company logo.

The ACS system lets you tab through the calibration data before you print the certificate.

You can even copy the graph to the clipboard to use in other applications.



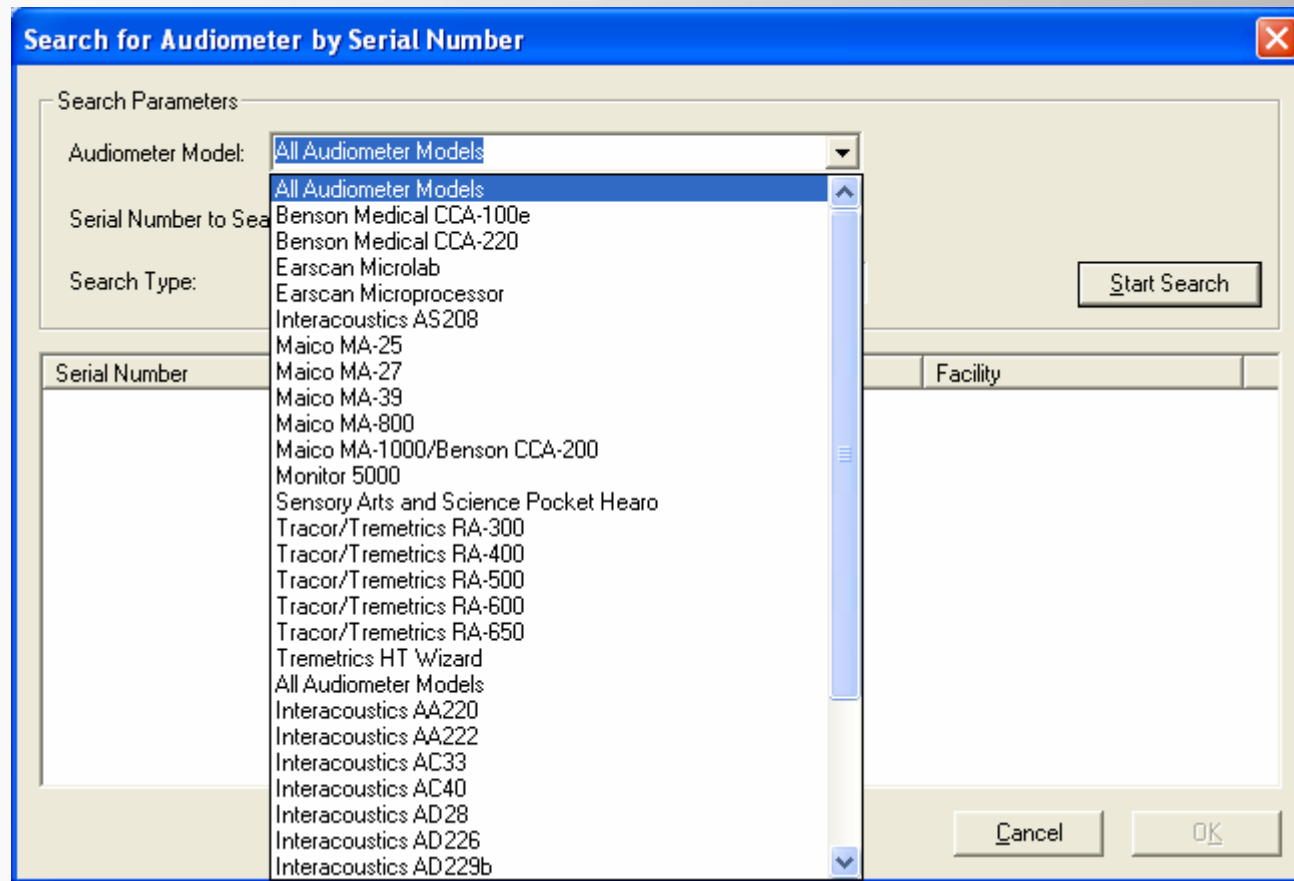
**Audiometer Calibration Certificate (ANSI S3.6 1996)**

<b>Customer Information</b> AUSSCO Inc. Michigan 16175 Red Arrow Hwy Union Pier MI 49129 USA 773-281-1531	<b>Audiometer Information</b> Model: Siemens Unity S/N: 175813 Headphones: Telephonics TDH-39/39P, S/N (C204021, C203196) Insert Phones: Auditory Systems Eartone 3A, S/N (29019, 29020) Bone Oscillator: Radio Ear Model B-71, S/N: 16535	www.Audiometry.com   Audiological Service & Supply Company (773) 281-1531
<b>Test Equipment</b> ACS-100 Audiometer Calibration System 2.0.03j Microphone: ACO7023 Serial Number 10808 Artificial Mastoid: CMA20Mastoid Serial Number 119947	<b>Calibration Information</b> Calibration date: July 29, 2004 01:28:11 PM Calibrated by: Technician:	
Signature		

Test Freq	Frequency			Phone Level			Phone THD			Phone Narrow			Phone White Noise			Phone Speech Noise			Phone Speech Level			
	Test Level	Osc 1 Left	Osc 1 Right	Test Level	Oscillator 1 Left	Oscillator 1 Right	Test Level	Oscillator 1 Left	Oscillator 1 Right	Test Level	Oscillator 1 Left	Oscillator 1 Right	Test Freq	Oscillator 1 Left	Oscillator 1 Right	Test Freq	Oscillator 1 Left	Oscillator 1 Right	Osc 1, Left	Osc 1, Right		
125	75	125.0	60	0.1	-0.0	75	0.331	0.272	55	-0.9	0.5	55	-0.9	0.5	85.5	4.5	8.1			Osc 1, Left	0.1	
250	90	250.0	70	-0.1	-0.0	90	0.205	0.161	70	-0.1	-0.0	250	-2.1	-1.9	82.5	1.4	1.1			Osc 1, Right	0.1	
500	110	499.9	70	-0.1	0.2	110	0.415	0.415	70	-0.4	-0.0	500	-0.9	-0.8	83.4	2.4	2.0					
750	110	749.8	70	-0.1	0.1	110	0.220	0.200	70	-0.1	0.0	750	-0.7	-0.3	83.4	2.3	1.3					
1000	110	999.7	70	-0.1	-0.1	110	0.219	0.177	70	-0.0	-0.1	1000	0.0	0.0	81.1	0.0	0.0					
1500	110	1499.5	70	0.0	0.0	110	0.196	0.138	70	0.1	0.2	1500	-0.8	-0.8	76.0	0.9	0.2					
2000	110	1999.4	70	0.0	0.0	110	0.363	0.323	70	0.2	-0.2	2000	-2.3	-0.5	70.4	1.4	1.3					
3000	110	2999.0	70	0.1	-0.0	110	0.386	0.401	70	-0.3	0.5	3000	0.1	0.1	66.1	3.0	1.7					
4000	110	3998.6	70	-0.1	-0.1	110	0.513	0.502	70	0.0	0.5	4000	1.2	-0.1	61.6	4.5	3.1					
6000	90	5997.9	70	0.1	-0.0	90	0.204	0.136	70	-0.5	0.1	5000	4.2	3.2	51.0	-0.1	-0.4					
8000	90	7997.2	65	-0.0	-0.1	90	0.253	0.167	70	0.2	0.1	Total	0.1	0.1	89.6	0.1	0.1					
Test Freq	Insert Level			Insert THD			Insert Narrow			Insert White Noise			Insert Speech Noise			Insert Speech Level		Bone Level				
	Test Level	Oscillator 1 Left	Oscillator 1 Right	Test Level	Oscillator 1 Left	Oscillator 1 Right	Test Level	Oscillator 1 Left	Oscillator 1 Right	Test Freq	Oscillator 1 Left	Oscillator 1 Right	Test Freq	Oscillator 1 Left	Oscillator 1 Right	Osc 1, Left	Osc 1, Right	Test Level	Osc 1			
125	65	0.2	0.5	75	0.244	0.456	55	0.3	0.7	250	-0.1	0.3	75.4	3.1	3.3			Osc 1, Left	0.2	25	-0.0	
250	70	0.0	0.2	90	0.390	0.605	70	1.2	0.3	500	1.2	1.2	76.7	4.4	4.0			Osc 1, Right	0.2	40	0.1	
500	70	0.2	0.3	110	1.223	1.710	70	0.4	-0.2	750	0.1	0.1	74.7	2.3	2.5					40	-0.0	
750	70	0.1	0.2	110	0.958	1.405	70	0.8	0.8	1000	0.0	0.0	72.3	0.0	0.0					40	0.1	
1000	70	-0.2	-0.1	110	0.603	0.714	70	0.2	0.8	1500	-0.6	-0.1	67.1	0.8	0.7					40	0.1	
1500	70	-0.2	0.1	110	1.425	1.608	70	-0.5	0.4	2000	0.4	1.1	63.5	3.1	3.7					40	0.1	
2000	70	-0.1	0.0	110	4.024	4.502	70	-0.5	-0.1	3000	2.6	2.5	59.1	4.7	4.7					40	0.2	
3000	70	-0.3	0.1	110	1.130	1.266	70	0.0	-0.2	4000	4.8	4.3	55.5	7.2	6.6					40	0.1	
4000	70	-0.1	0.1	110	1.381	1.673	70	-0.2	-0.1	5000	-4.5	-4.8	31.3	-11.1	-11.0					30	-0.0	
6000	70	0.0	0.1	90	0.204	0.287	70	-0.5	0.0	Total	0.0	-0.1	81.9	-0.6	-1.9							
8000	65	-0.0	0.0	90	0.748	0.558	70	0.1	-0.3													
Test Freq	Bone THD		Bone Narrow		Bone White Noise		Bone Speech Noise		Bone Speech Level		Electrical											
	Test Level	Osc 1	Test Level	Oscillator 1	Test Level	Osc 1	Test Freq	Osc 1	Test Freq	Osc 1	Test Freq	Test Level	Test Level	Off	Fall	Rise	Over	Cross L	Cross R			
125										Osc 1	0.1	125	75	-94.6	31.9	31.9	0.01	n/a	n/a			
250	20	0.801	5	-0.7	-0.7	250	3.7	89.0	7.2			250	90	-98.9	27.9	27.9	0.03	n/a	n/a			
500	50	2.054	15	1.8	1.8	500	8.4	93.0	11.1			500	110	-115.2	27.7	29.7	0.00	n/a	n/a			
750	50	0.869	20	2.3	2.3	750	2.3	85.9	4.0			750	110	-111.5	29.0	30.3	0.08	n/a	n/a			
1000	60	0.298	25	1.4	1.4	1000	0.0	81.8	0.0			1000	110	-111.1	27.3	31.3	0.04	n/a	n/a			
1500	60	0.071	30	3.0	3.0	1500	-0.4	76.6	0.8			1500	110	-110.4	27.7	30.3	0.07	n/a	n/a			
2000	60	0.282	35	4.3	4.3	2000	-4.1	68.9	-0.9			2000	110	-109.5	27.8	28.3	0.17	n/a	n/a			
3000	60	0.065	40	6.2	6.2	3000	-12.9	53.0	-10.8			3000	110	-107.4	27.3	29.8	0.25	n/a	n/a			
4000	60	0.105	40	3.0	3.0	4000	-7.4	53.9	-3.9			4000	110	-107.8	28.1	30.3	0.11	n/a	n/a			
6000			30	8.3	8.3	5000	-22.9	62.6	10.8			6000	90	-106.9	26.1	32.5	0.71	n/a	n/a			
8000						Total	-0.2	95.2	0.2			8000	90	-113.2	28.3	28.4	0.24	-81.7	-70.7			

Print a color calibration certificate. Use your company logo.

Just insert a blank certificate and print the results right on the back



You can search your audiometer database by model, manufacture, type and serial number to find out where the audiometer belongs.

Calibration Report Options

Report Parameters

Report Type:

Calibrations Due

Calibrations Performed

Calibrations Due

Next Month

From: 4/ 1/20C To: 4/30/20C

Customers to Include:

All Customers

Audiometer Models to Include:

All Audiometer Models

Calibration Records to Include:

Most Recent Calibrations

OK Cancel

The ACS system will generate custom calibration reports so you never forget a customer. Customers due, done, this week, next month all at your finger tips.

The ACS system allows you to customize the calibration tests themselves.

The ACS system comes with these already set for many makes and models of audiometers.

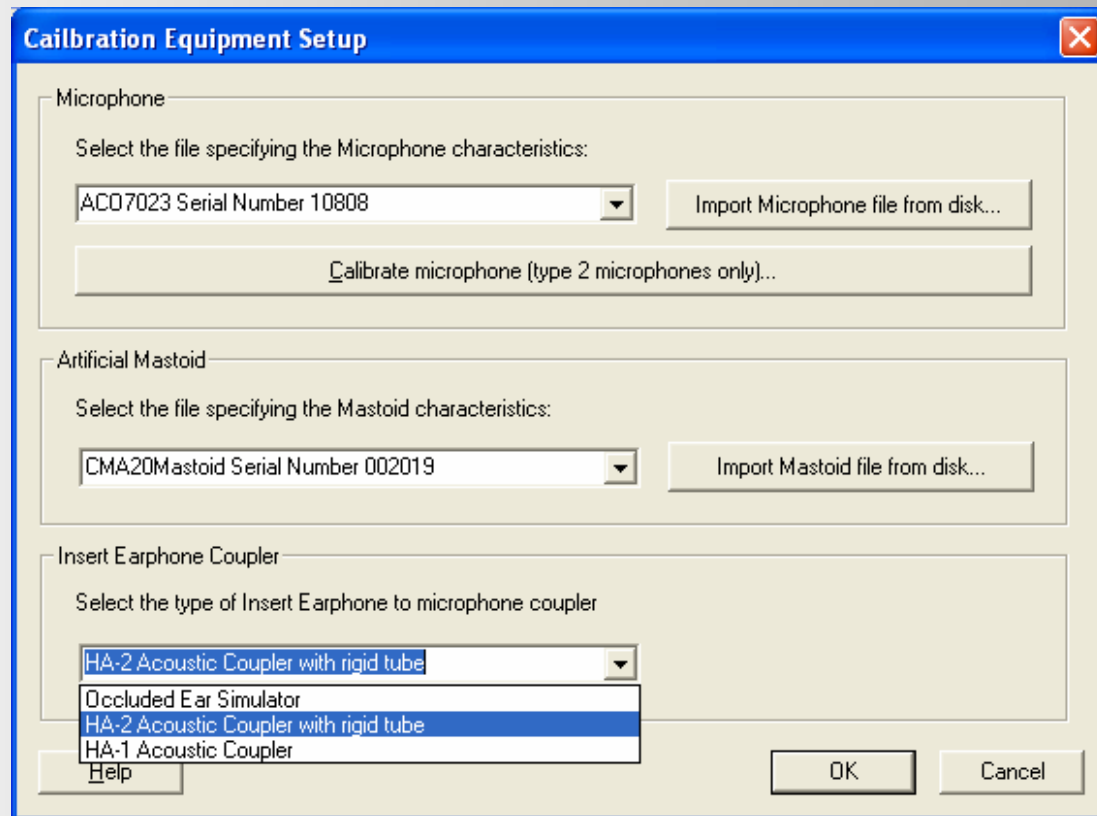
You can even make a user defined audiometer for those old or off brand audiometers.

Transducer:	Headphones	Insert phones	Bone Vibrator								
<input checked="" type="checkbox"/> Include this test when calibrating this audiometer											
Test Channel:	Both Left and Right										
Test Oscillator:	Oscillator Channel 1										
Freq (Hz)	125	250	500	750	1000	1500	2000	3000	4000	6000	8000
Test Level (dB)	60	70	70	70	70	70	70	70	70	70	65

The ACS system allows you to use the microphones, artificial mastoids and couplers you already have!

The ACS system has built in correction tables for the different response curves of microphones.

Connect a piston-phone and check the calibration of the ACS system in seconds.





Audiological Service & Supply Company  
800-755-8272  
[Audiometry.com](http://Audiometry.com)

# ACS 100

Auto Cal System

*Changing the industry*

800-755-8272

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AUSSCO INC.