



A2D+ Audiometer, ARC  
and AWRC Compatible

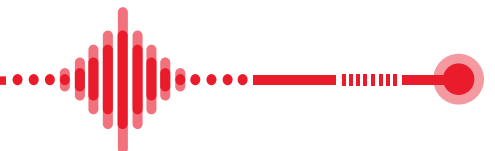
## Audible Contrast Threshold test - ACT™

ACT Will Help Clinicians Find  
A Patient's Ability To Hear Sound  
In Noise.

# MedRx®

## 888-392-1234

To Schedule An Online Demo

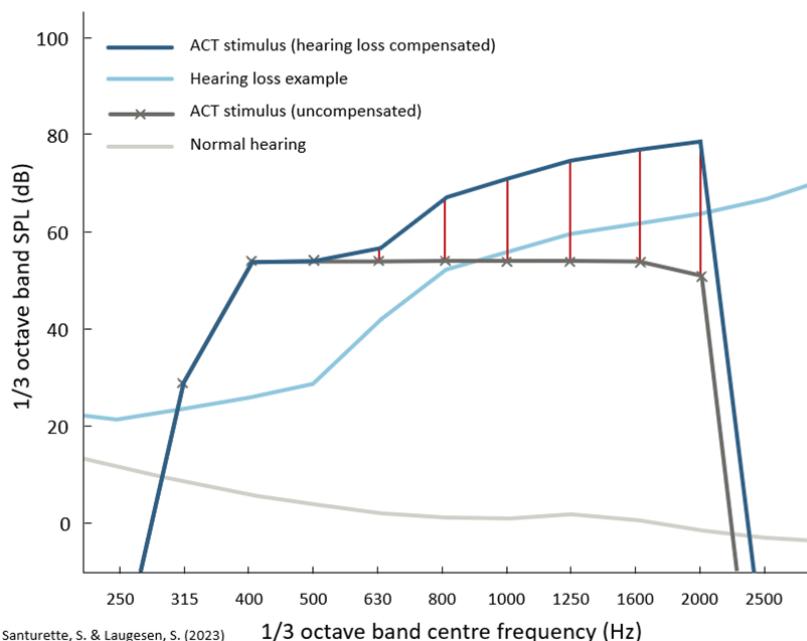


# MedRx Audiometers Now Feature ACT™

The Audible Contrast Threshold test – also known as ACT – is the fastest method to accurately determine a person’s ability to hear in noise.



The ACT uses the push button to record responses.



Santurette, S. & Laugesen, S. (2023)

1/3 octave band centre frequency (Hz)

## Introduction to ACT™

- ACT is a language independent aided speech in noise equivalent test
- Performed in 2-3 minutes
- Customized ACT stimulus by individual audiogram
- Personalized hearing care with ACT results

## Available in MedRx Audiometers

- A2D+, ARC, AWRC

## The ACT Stimulus

ACT uses a specialized stimulus called spectro-temporal modulated (STM) stimulus embedded in noise. This is STM stimulus sounds similar to a siren that resembles the spectrogram of speech. As the STM sounds are not speech, they become language independent as all languages are able to distinguish the sounds. This is very important for multi-lingual listeners to obtain their best results.

The ACT stimulus is also custom tailored to each individual's audiogram. The stimulus is adjusted to the unique audiogram by increasing frequency specific gain to try and allow for 15 dB of audibility. The customized stimulus to the audiogram gives the equivalence to aided speech in noise

## The ACT Procedure

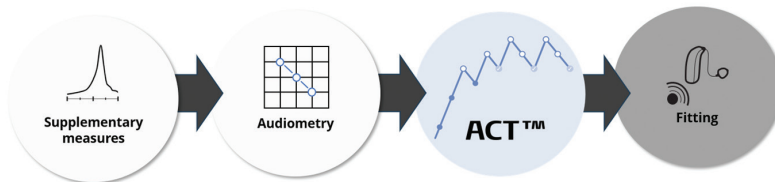
The ACT uses a wave stimulus presentation which is a continuous burst of pink noise sounds for the patient. The clinician chooses when to insert the ACT stimulus into a noise burst for the patient to respond. The ACT uses the push button to record responses. All responses are automatically scored by the MedRx system. The level will automatically adjust based on the patient's response. Manual level changes can be performed as desired by the clinician. ACT will target the 70.7% correct performance by the patient. The final result will be a dB nCL.

## Normative Contrast Level (nCL)

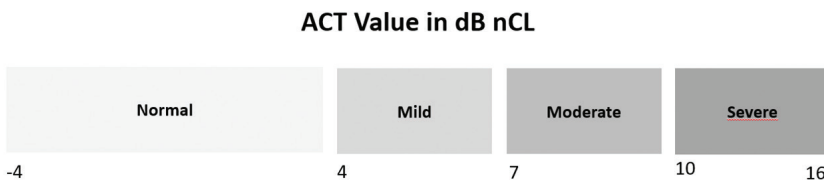
Difference in modulation threshold compared to the threshold of young, normal hearing people (0 dB nCL)

## The ACT Workflow

The ACT test is a supplemental test to the audiogram. The audiogram provides the quantity of hearing while the ACT will provide the patient's quality of hearing. Together the audiogram and ACT form a complete picture of the patient's hearing. A clinical workflow would be:



## ACT Interpretation of Results



**AVANT A2D+**  
Dual Channel Diagnostic Audiometer



**AVANT ARC**  
Combination Audiometer  
& REM/LSM System



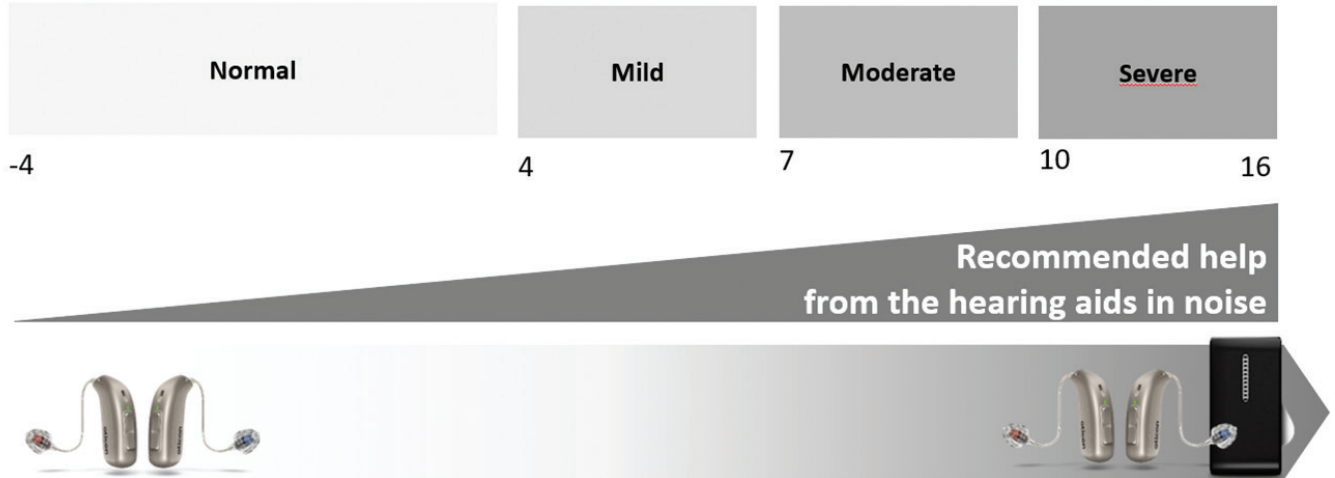
**MedRx AWRC**  
Clinical Audiometer  
with High Frequency Option  
& Wireless REM/LSM

# ACT™

## Audible Contrast Threshold test

### Using the ACT Results

The ACT results can be used to help program a hearing aid in new ways. Unlike traditional speech in noise test the ACT is an aided speech in noise test which helps estimate the patient's performance in noise with hearing aids. A normal ACT test would indicate that a patient can use noise reduction later and less aggressively than a patient with a severe ACT result.



Good Things Come In Small Packages

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MX-ACT-DS-1 Rev. 1

