# QUICK GUIDE

**COMPASS GPS**

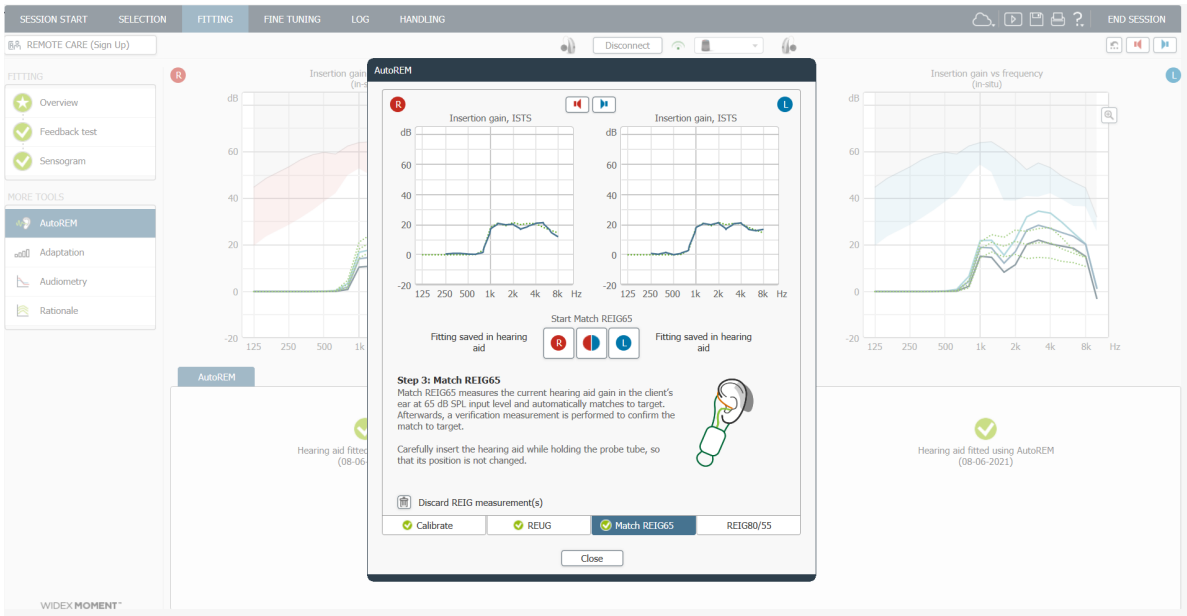
# AUTOREM

## Introduction

This quick guide explains the AutoREM tool in COMPASS GPS. You can access the AutoREM tool from the left navigation bar under the FITTING theme.

AutoREM lets you make integrated Real-Ear Measurement (REM) with automatic match-to-target for normal speech at 65 dB SPL input signal - International Speech Test Signal (ISTS).

The AutoREM tool facilitates the access to integrated hearing aid fitting verification usually done manually with an external REM equipment/software module.



## Before you use the tool

Note the following before you use the AutoREM tool:

- Equipment: The AutoREM feature works with the external software products OTOsuite and Affinity Suite, plus relevant, external hardware. It is thus IMC2-compatible (follows the InterModuleCommunication protocol no. 2).
- Compatibility: The AutoREM tool is available for all MOMENT hearing aid models binaurally and monaurally and can be used with all fitting rationales in COMPASS GPS: Widex Fitting Rationale (WFR), NAL-NL2. DSL v5.0 Paediatric or Adult.
- The Adaptation feature is always set to *Off* for AutoREM and is kept at Off after the AutoREM.
- AutoREM applies to the Universal-1 program only. If programs are added AFTER you have used AutoREM, these programs will inherit any gain changes made due to AutoREM. If you need to finetune a program attached to Universal-1 after AutoREM, while keeping AutoREM results unchanged, you may unlink this program for program-specific adjustment.
- We recommend that you make a Feedback test and a Sensogram before you use the AutoREM tool.

## Easy 4-step workflow

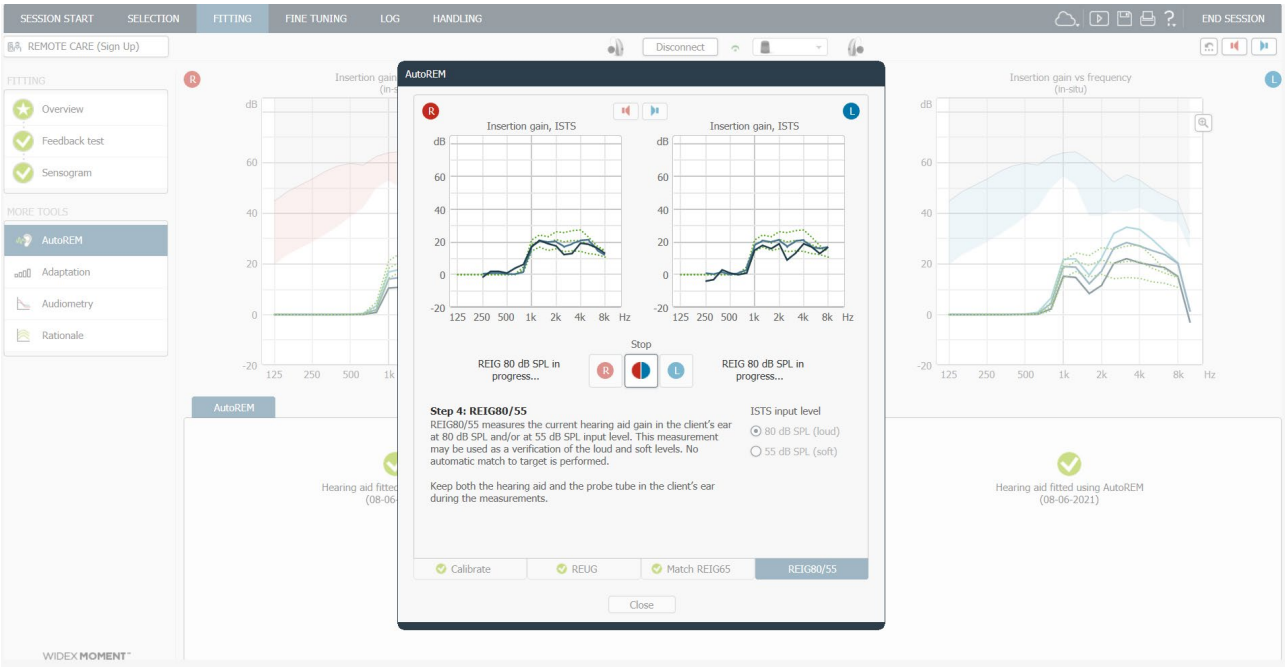
Start AutoREM by selecting *Open AutoREM* in the middle of the AutoREM window. A dialogue box opens with an easy workflow displayed in a progression bar containing the four steps of the measurement: Calibrate, REUG, Match REIG65 and REIG80/50

1. **Probe tube calibration**
   The first step, Calibrate, allows you to perform a probe tube calibration in order to calibrate the individual probe tube, which has to be changed for each new client.

2. **Real-Ear Unaided Gain (REUG) measurement**
   The second step, REUG, allows you to perform a Real-Ear Unaided Gain measurement at 65 dB SPL for ISTS, in order to be able to calculate the individual insertion gain for the client.

3. **Real-Ear Insertion Gain (REIG) measurement and automatching to target for a 65 dB SPL input signal – ISTS**
   Once the REUG measurement is finished, click the third step, *Match REIG65,* in order to perform a REIG measurement of the current hearing aid gain at 65 dB SPL input level. AutoREM then automatically matches the gain to target for each side separately, followed by a re-verification measurement. If you want to redo or delete AutoREM, you can always click *Discard REIG measurement(s)*.

4. **Real-Ear Insertion Gain (REIG) measurements for 80 and 55 dB SPL input signals – ISTS**
   To perform REIG measurements at 80 dB and/or 55 dB SPL input level in order to verify the hearing aid gain for loud and soft input levels, you may enter the fourth step, *REIG80/55,* which is the final step. Note that no automatic match to target is performed for these measurements.




Throughout the process, the performance graphics in the main COMPASS GPS window behind the AutoREM dialogue box are updated so you can follow what happens with the fitting. Note that the performance graphics in the background display the STANDARD ear, while the dialogue box graphics display the INDIVIDUAL ear.

The mute/unmute button is available for all 4 steps of the AutoREM procedure.

When AutoREM is completed and the dialogue box is closed, the AutoREM window shows a check mark for each hearing aid, indicating that AutoREM has been successfully completed. Here you can also see the measurement date.

After AutoREM, you may navigate to the FINE TUNING theme to finetune the hearing aids further, if needed.

*For further information and guidance, open the Help system from the top navigation bar in the COMPASS program, or by pressing the F1 button on your keyboard.*

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