SafetyMeter

Hearing protection guaranteed

PHONAK life is on

Why SafetyMeter?

Certainty
Safety managers are assured that every employee receives the perfect protection they deserve. This helps managers comply with national standards and/or the recommendations of occupational safety organizations.

Education
SafetyMeter can act as a highly valuable hearing safety training tool. By demonstrating how protection levels vary when Phonak custom ear shells are used correctly and incorrectly, employees can understand how to use their protection and what 'safe' noise levels really sound like.

Objective
Unlike other test systems, SafetyMeter does not rely on subjective user responses. Instead, staff simply insert their ear shells and the SafetyMeter test is run. SafetyMeter, not the employee, detects and reports whether the protection offered is accurate.

Comprehensive
The SafetyMeter testing system works right out of the box. No special testing areas or loudspeakers are required.

Reporting
Safety managers can monitor users' protection over time. Each test result is presented as a personal attenuation control certificate and stored in the SafetyMeter database.

SafetyMeter includes:

- Soundcard
- USB cable
- Headphones
- Probes
- System check accessories
- SafetyMeter software
- User manual
- Carry case

A unique tool for a unique range of Phonak products

When it comes to keeping employees' hearing protected, ensuring the **real-life performance** of every user's protection is the final piece of the puzzle.

Whilst attenuation values are published for every hearing protection product, such as a **Single Number Rating** (SNR) or **Noise Reduction Rating** (NRR), these ratings are average product values that have been measured under laboratory conditions.

In truth however every user receives a slightly different degree of protection, based on how well the individual fits their protection and, in the case of custom shells, on how tight the shell fits to the ear geometry.

SafetyMeter – Personal attenuation control system:

- **Effectively** assesses the hearing protection each staff member really receives.
- **Objectively** controls a protection system while the users wear it - without the need for their subjective feedback.
- Provides each user with a **Personal Attenuation Rating (PAR)** that applies only to them and their current protection system.
- Run **on-site**, requiring only 5-10 minutes of the user's time.

SafetyMeter is only available for testing Phonak hearing protection ear shells.

Only through this approach can safety managers be sure that every individual receives and understands the exact level of hearing protection they need.

Fit testing made simple: 4 steps to success

1 Connect

The operator connects the SafetyMeter soundcard to a PC that contains Phonak's proprietary software: one end is attached to the PC via USB, the other slots into the SafetyMeter headphones and probes. Finally the probes are connected to the employee's individual ear shells.

2 Wear

The employee slots in their ear shells as normal. Then they place SafetyMeter's test headphones on top.

3 Run

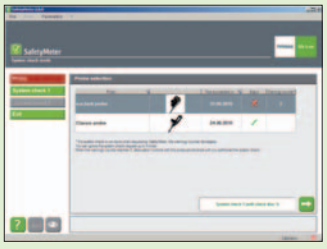
The operator runs the SafetyMeter test. The system plays sounds through the headphones and uses miniature microphones to measure the residual sound inside the employee's ear shells. By computing the difference between the sounds in the headphones and in the ear, the attenuation level of the shells is calculated.

4 Results

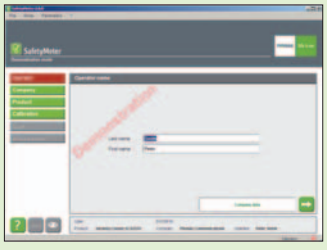
Test results are created, which the safety manager can view, save and print.

SafetyMeter operating modes

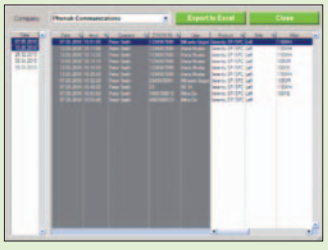
Attenuation control



System check

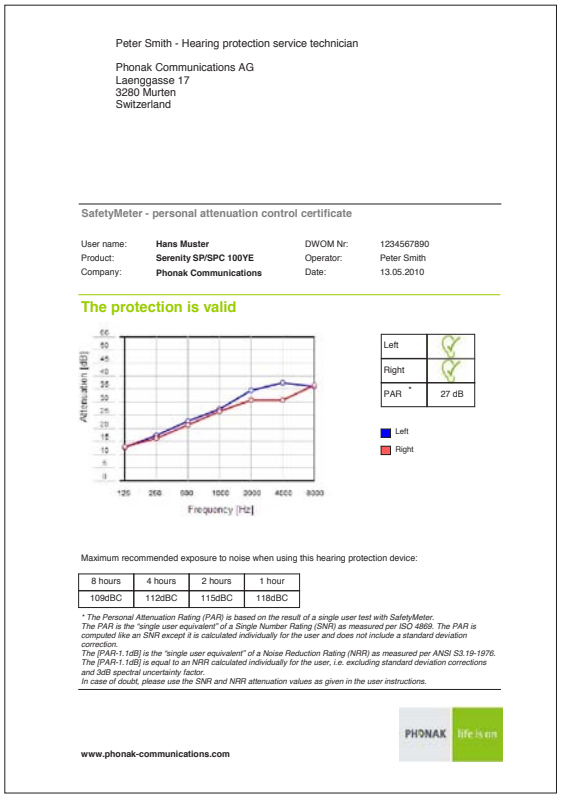


Demonstration



Data browser

SafetyMeter certificate



Peter Smith - Hearing protection service technician

Phonak Communications AG
Laenggasse 17
3280 Murten
Switzerland

SafetyMeter - personal attenuation control certificate

User name:	**Hans Muster**	DWOM Nr:	1234567890
Product:	**Serenity SP/SPC 100YE**	Operator:	Peter Smith
Company:	**Phonak Communications**	Date:	13.05.2010

The protection is valid

Attenuation [dB]

Frequency [Hz]

Left	
Right	
PAR *	27 dB

Left
Right

Maximum recommended exposure to noise when using this hearing protection device:

8 hours	4 hours	2 hours	1 hour
109dBC	112dBC	115dBC	118dBC

** The Personal Attenuation Rating (PAR) is based on the result of a single user test with SafetyMeter. The PAR is the "single user equivalent" of a Single Number Rating (SNR) as measured per ISO 4869. The PAR is computed like an SNR except it is calculated individually for the user and does not include a standard deviation correction.*
The [PAR-1.1dB] is the "single user equivalent" of a Noise Reduction Rating (NRR) as measured per ANSI S3.19-1976. The [PAR-1.1dB] is equal to an NRR calculated individually for the user, i.e. excluding standard deviation corrections and 3dB spectral uncertainty factor.
In case of doubt, please use the SNR and NRR attenuation values as given in the user instructions.

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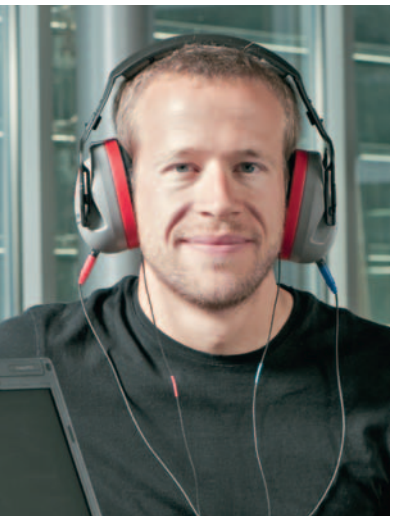

Life is on

We are sensitive to the needs of everyone who depends on our knowledge, ideas and care. And by creatively challenging the limits of technology, we develop innovations that help people hear, understand and experience more of life's rich soundscapes.

Interact freely. Communicate with confidence.
Live without limit. Life is on.

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