



# 3M™ E-A-Rfit™ Dual-Ear Validation System

The right fit test. Right now.



## Features:

- Tests both ears simultaneously in under 5 seconds
- Earmuff and earplug testing capability
- Tests at 7 frequencies, from 125Hz to 8000Hz
- Science-based, objective, quantitative testing



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# The challenge of hearing protection.

## How do you know if your workforce is protected?

Protecting workers from hazardous noise levels is an ongoing challenge for many organizations. In fact, according to the U.S. Bureau of Labor Statistics (2010)\*, the most commonly recorded occupational health issue in the manufacturing sector is permanent hearing loss. The success of your safety program depends on many factors and requires more than just offering hearing protection.

## Individual Fit Testing Using F-MIRE

Using F-MIRE (Field Microphone-In-Real-Ear) technology, the E-A-Rfit™ Dual-Ear Validation System generates a Personal Attenuation Rating (PAR) in under 5 seconds for both ears, taking into account the 7 standard measured testing frequencies.

- Measures how well 3M's most popular earplugs and earmuffs perform
- Delivers a quantitative measurement of personal noise reduction for each employee
- Can help identify whether or not the employee has adequate protection

## The Right Protection for Your Facility

Get results you can trust. The E-A-Rfit Dual-Ear Validation System measures the effectiveness of the hearing protection from inside the employee's ear, providing accurate, quantitative results. And because you can simultaneously test both ears, you'll have more time to educate employees on the importance of fit and compliance.

### 1 Fit.

Have the employee insert their earplugs or put on their earmuffs.

### 2 Test.

Connect to microphones and begin speaker test sound.

### 3 Assess.

Use PAR to customize hearing protector selection.



\*Source: <http://www.cdc.gov/niosh/docs/2010-136/pdfs/2010-136.pdf>

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## Employee-to-Employee Variability

To make sure they are getting the protection they need, you need to know the Personal Attenuation Rating (PAR) of every employee. The highest-NRR earplug or earmuff won't provide the expected protection if it doesn't fit right or isn't used right. Once you know each employee's number, you'll be on the way to yours: 100% confidence in your hearing conservation program.

Every employee is different. Every job is different. Every ear is different. Finding each employee's number will help you validate compliance and have assurance that their hearing protection is sufficient.

## Program Documentation

E-A-Rfit Dual-Ear Validation System testing sessions produce a validation document that can be kept in each employee's file, providing documentation of your commitment to training and compliance with OSHA hearing conservation program guidelines.

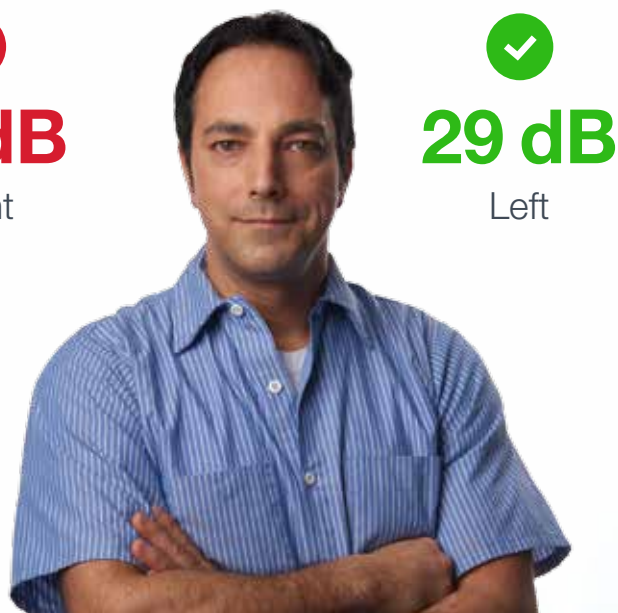
- Features easy-to-read test results for both ears as well as testing history
- Creates digital and printable reports for both employee and company records
- Provides a direct measurement of noise reduction in decibels
- Provides an estimate of test variability



**Fail.**  
10 dB  
Right

A "fail" result means the hearing protection is either not fitted properly or is the wrong type or size for the worker's ear canal.

**NOTE:** Finding out each employee's PAR is the first step to a successful conservation program. Once a worker's PAR is measured, you can determine if they're using the right hearing protection and ensure they're trained on using it properly.



**Pass.**  
A "pass" result means the hearing protection fits properly and provides sufficient protection for the worker's specific job.

Identify at-risk employees.

# 3M™ E-A-Rfit™ Dual-Ear Validation System



**E-A-Rfit™**

Product Number	Description	Case/Size
393-1100	3M™ E-A-Rfit™ Dual-Ear Validation System	1 Kit



393-3001-2	3M™ PELTOR™ Earmuffs X1/X2 Probed Test Cushions	2 Pair
393-3003-2	3M™ PELTOR™ Earmuffs X3 Probed Test Cushions	2 Pair
393-3005-2	3M™ PELTOR™ Earmuffs X4/X5 Probed Test Cushions	2 Pair

To learn more, visit [3M.com/EARfit](http://3M.com/EARfit).

For a complete list of probed earplugs and cushions, visit [EARfit.3M.com](http://EARfit.3M.com).

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70-0716-7151-8