



# EARMUFF 31dB (78228)

## INTRODUCTION

Congratulations and thank you for choosing a device from RC-Profis!

## IMPORTANT

This ear protection helps to protect the hearing from harmful noise and other loud noises. An improper or negligent, i.e. discontinuous use in a noisy environment can cause hearing damage. For correct use, ask your supervisor, read the instructions for use or contact the technical service of RC-Profis.

If you feel that you have bad hearing, or if you hear ringing or buzzing during or after you have been exposed to noise, or if you suspect a hearing problem for any other reason, leave the noisy area immediately and turn to a medical professional, contact a specialist or your supervisor.

## WARNINGS AND PRECAUTIONS

This ear protection helps to protect the hearing from harmful noise and other loud noises. An improper or negligent, i.e. discontinuous use in a noisy environment can cause hearing damage. For correct use, ask your supervisor, read the instructions for use or contact the technical service of RC-Profis.

If you feel that you have bad hearing, or if you hear ringing or buzzing during or after you have been exposed to noise, or if you suspect a hearing problem for any other reason, leave the noisy area immediately and turn to a medical professional, contact a specialist or your supervisor.

## WARNINGS AND PRECAUTIONS

Failure to follow these instructions can result in serious health damage or death:

Listening to music or other audio sources can worsen your awareness of the situation and your ability to hear warning signals. Stay alert and set the volume of the audio signals to the lowest possible level. While the entertainment function is in use, the audibility of warning signals may be impaired in certain workplaces. Failure to follow these instructions can reduce the level of protection, provided by hearing protection and lead to hearing loss.

RC-Profis strongly recommends a personal Tight fit test for hearing protection. If the sound insulation value or SNR is used to achieve typical workplace protection, RC-Profis recommend that the sound insulation value should be reduced by 50% or according to the applicable regulations.

The hearing protection must be carefully selected, fit, adapted and maintained in accordance with the manufacturer's instructions. A bad fit of this device will reduce the soundproofing effect. The enclosed instructions must be followed so that the hearing protection fits properly. This hearing protection is in the size range "S / M / L"

The hearing protection must be checked carefully before each use. If the device is damaged, use undamaged hearing protection or avoid noisy environments.

If additional personal protective equipment is required (e.g. protective goggles, respiratory protection mask, etc.) use such with flexible, thin temples or straps in order to minimize the influence on the sealing rings. All other objects that are not required (e.g. hair, hats, jewelry, headphones, hygiene covers, etc.) that could affect the sealing rings and reduce the protection of the hearing protection must be removed.

The headband must not be bent or deformed and the hearing protection must be held in place with sufficient force.

The hearing protection and especially the sealing rings can show signs of aging over time. The device must therefore be checked regularly for the need of maintenance.

The output of the Audio sources of these hearing protection devices may exceed the daily sound level limit. Set the volume of the audio signals to the lowest possible level.

## WARNINGS AND PRECAUTIONS

### Safety statements according to EN 352:

- > Hygiene requirements on the sealing rings can impair the acoustic performance of the hearing protection
- > The Performance can be deteriorated with the operating time of the battery. The typical expected operating time of the hearing protection battery is up to approx. 40 hours.
- > This product can be affected by certain chemical substances. Further information can be requested from the manufacturer.
- > The sound output can exceed the external sound level.

## DANGER:

**Risk of explosion if batteries are replaced with the wrong type. Hearing protection should be worn without interruption in noisy areas.**

### Contact information for service and parts

RC-Profis Import & Sales, Neue Welt 2, 88471 Laupheim Germany  
 eMail: [info@rc-profis.com](mailto:info@rc-profis.com)  
[www.rc-profis.com](http://www.rc-profis.com)  
 16.12.2020, Ver: 1.0 english

## ATTENTION

- > If this hearing protection is worn in accordance with the operating instructions, it helps to reduce the burdening of continuous and industrial noise, as well as the noise of vehicles and aircraft. The required and / or existing hearing protection during the burdening to sound peaks is difficult to predict. The insulation performance depends, among other things, on the correct selection, the fit and use of the hearing protection, the proper care of the hearing protection and other parameters.
- > This hearing protection has an electrical audio input. The user should check, if that is working correctly before use. If distortion or errors are discovered, the user should refer to the manufacturer's recommendations.
- > This hearing protection limits the audio signal of the audio entertainment function to an effective sound pressure level of 82dB (A) at the ear.
- > Operating temperature range: -10 ° C to 40 ° C
- > Storage temperature range: -10 ° C to 40 ° C
- > Weight of hearing protection: 352g
- > RC-PROFIS Import & Sales hereby declares that the PSA 78218 of the regulation (EU) 2016/425 corresponds. The full text of the EU declaration of conformity is available at The following Internet address is available:
- > [www.rc-profis.com/konformitaetserklaerung/78228](http://www.rc-profis.com/konformitaetserklaerung/78228)
- > This headset complies with the EN352-1 and 352-8: 2008 and 352-6:2002 standards.

This product contains electrical and electronic components and must not be disposed of

with general waste. The local regulations for the disposal of electrical and electronic equipment must be observed.

## 1. INSULATION UNDER LABORATORY CONDITIONS

**WARNING!** RC-Profis strongly recommends a personal fit test for the hearing protection. If the sound insulation value SNR is used to achieve typical workplace protection, RC-Profis recommend that the sound insulation value should be reduced by 50% or according to the applicable regulations.

A. European standard EN 352-1: 2002

- 1 frequency (Hz)
- 2 mean attenuation, mean att (dB)
- 3 standard deviation (dB)
- 4 Assumed protective effect, APV (dB)

H = Estimated hearing protection, tones with high frequencies ( $f > 2000$  Hz).

M = Estimated hearing protection, tones with medium frequencies ( $500 \text{ Hz} < f < 2000$  Hz).

L = Estimated hearing protection for tones with low frequencies ( $f < 500$  Hz)

Frequency	63	125	250	500	1000	2000	4000	8000
Noise reduction (dB)	20	20,9	22	28,3	31,4	36,2	42,6	37,7
Standard Deviation (dB)	4,4	3,4	2,5	2,9	2	2,5	3,6	4,6
assumed protective effect	15,6	17,5	19,5	25,4	29,4	33,7	39	33,1

5) SNR=31 dB H=34 M=28 L=22

### Materials:

The hearing protection you have purchased, consists of the following materials:

- Stainless steel (headband wires)
- Acetal (two-point suspension, inner and outer shell)
- polyurethane foam (insulation cushion)
- PVC foil (sealing rings)
- polyester foam (sealing rings)

### 3. Use



Slide the capsules outward and tilt the top of the capsule outward.



Adjust the height of the capsules until they are tight and comfortable. Hold the headband with one hand.



The bracket should run across the middle of the head

Ear-muffs complying with EN352-1 are of "medium size range" or "small size range" or "large size range".

"Medium Size range" will fit the majority of wearers. "Small size range" or "large size range" ear-muffs are designed to fit wearers for whom "meium size range" ear-muffs are not suitable.

### EN 352-6: 2002

Electrical input for which the mean + one standard deviation of A-weighted diffuse-filed related sound pressure is equal to 82dB 360mV

Notified body for type examination and according to Regulation 2016/425: SATRA Technology Europe Ltd, Bracetown Business Park, Clonee, D15 YN2P Dublin, Ireland, Tel: +353 (0) 1 437 2484 Notified body: **2777**  
 Notified body for monitoring according to Regulation 2016/425: PZT GmbH, Bismarckstraße 264B, D-26389 Wilhelmshaven Notified body: **1974**





#### 4. Instruction manual

##### 4.1. Control elements:

- 1: On / Off, Function
- 2: AUX input
- 3: Search buttons (song forward, song back)
- 4: Status LED
- 5: Micro-USB-B charging socket

##### 4.2 Handling the rechargeable battery

The device is equipped with a rechargeable 3.7V lithium battery. Please charge the hearing protection completely before using it for the first time. In order to guarantee the longest possible service life of the battery, it should not be deeply discharged and the charging process should not be interrupted before the battery is fully charged. When the device is switched on, voice output always shows the current battery status.

##### 4.3 Switching the device on and off

To switch the hearing protection on or off, press and hold the button (1) for 2 seconds.

##### 4.4 Pairing:

After switching on the status LED flashes red, this means that it is not currently connected to any other device. To connect the hearing protection to your audio equipment, press the On / Off button twice in quick succession, the status LED now flashes alternately blue and red. Now select the device "78228" from the list on your audio equipment, as soon as the devices are connected to each other, the status LED flashes blue.



##### 4.5 Telephone function

When a phone call comes in, music playback stops automatically and the call is signaled by a ringtone. You can accept this by briefly pressing the button (1); if you keep the button pressed, you reject it. To end the accepted call, briefly press the button (1) again.

#### 5. Cleaning and maintenance

Clean the outer capsules, headband and sealing rings with a cloth, dampened with warm soapy water.

**Warning!!** : DO NOT immerse the hearing protection in water!

If the hearing protection gets wet, turn the earmuffs outward, remove the sealing rings and foam liners, and allow to dry before reassembly.

##### 5.1 Storage

Store the hearing protection in a dry place after use and protect it from UV radiation. Sleeves / bags for safe storage can be purchased in stores. If the hearing protection is to be stored for a long time, remove the batteries. Test the functions after changing the battery.

#### Warranty and Limitation of Liability Guarantee:

In the case that one of our products has material or workmanship defects or does not fulfill an express commitment for a specific purpose, the only obligation of RC-Profis and your only claim is that RC-Profis, at the free decision of RC -Profis will repair or replace such parts and products, or refund the purchase price, if you inform us in time of the matter and confirm that the product has been stored, maintained and used in accordance with the written instructions in this manual.

Except where prohibited by law, this warranty applies solely and instead of any express or implied warranties of general usability, particular purpose, or other warranties of quality, or those arising out of a course of business, custom or usage, with the exception of Legal claims against patent infringement.

RC-Profis has no obligation under this guarantee if the product shows defects, due to inadequate or unsuitable storage, use or maintenance, or because the product instructions have not been followed, or changes or damage to the product have occurred due to accidents, neglect or misuse.

#### Limitation of Liability:

Except where prohibited by law, regardless of current legal theory, RC-Profis is in no way liable for any direct, indirect, special, incidental or consequential loss or damage (including lost profits) caused by this product. Only the legal remedies specified here apply.

#### No changes:

Changes to this device are not permitted without the written consent of RC-Profis. Unauthorized changes can invalidate the warranty claims and the user's right to use the device. Furthermore any changes to the device can impair its function and protective effect.

Under no circumstances does RC-Profis assume any liability whatsoever for direct or consequential damages (including, but not limited to, loss of profit, business and / or goodwill) that result from following the information given here by RC-Profis. Before using the product, it is the responsibility of the user to check whether it is suitable for the intended use. No part of this declaration may be construed as excluding or limiting the liability of RC-Profis for death or personal injury caused by negligence.

#### Battery disposal:

Batteries are marked with the symbol of a crossed out wheelee bin. This symbol indicates that empty batteries or rechargeable batteries that can no longer be charged must not be disposed of with household waste. Old batteries may contain pollutants that can be harmful to health and the environment. As the end user, you are legally obliged to return used batteries (Battery Act Section 11 of the Act on the New Regulation of Product Responsibility for Batteries and Accumulators under Waste Law). You can return batteries free of charge after use at the point of sale or in your immediate vicinity (e.g. municipal collection points or in stores). You can also send batteries back to the seller by post.

#### WEEE notice:

The WEEE (Waste Electrical and Electronic Equipment) directive, which came into force as a European law on February 13, 2003, led to a comprehensive change in the disposal of obsolete electrical equipment. The primary purpose of this policy is to avoid e-waste while promoting reuse, recycling and other forms of reprocessing to reduce waste. The WEEE logo (garbage can) shown on the product and on the packaging indicates that the product must not be disposed of with normal household waste. You are responsible for delivering all disused electrical and electronic devices to the appropriate collection points. Separate collection and sensible recycling of electronic waste helps to use natural resources more sparingly.

Furthermore, the recycling of electronic waste is a contribution to preserving our environment and thus also human health. You can obtain further information about the disposal of electrical and electronic devices, recycling and collection points from the local authorities, disposal companies, specialist dealers and the device manufacturer. Our WEEE Reg-No. Is: 45395453

#### RoHS conformity:

This product complies with Directive 2011/65 / EU of the European Parliament and of the Council of June 8th, 2011 regarding the restricted use of hazardous substances in electrical and electronic devices (RoHS) and its modifications.

#### RED conformity:

RC-Profis hereby declares that the radio system type EARMUFF 78218 complies with Directive 2014/53 / EU. The full text of the EU declaration of conformity is available at the following Internet address: [https://rc-profis.com/conf/conf\\_78228.pdf](https://rc-profis.com/conf/conf_78228.pdf)

#### EN352-8:

The hearing protection limits the sound pressure level of the audio signal and limits the audio signal at the ear to 78,8dBA (+ standard deviation = 80dBA). The perceptibility of warning signals at certain workplaces can be impaired when using the sound reproduction system.