



Funkkopfhörer F5

Wireless Headphones

Casque sans fil

Auriculares inalámbricos

Cuffia radio

Słuchawki bezprzewodowe



F5 Wireless Headphones – Operating Instructions

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1 Introduction

The **F5** wireless headphones are an optional accessory for SEWERIN devices featuring SDR (Sewerin Digital Radio). They can be used either as universal or soundproofing headphones depending on the ear cushion used.

The **F5** headphones can be operated with either disposable or rechargeable batteries.

2 General

2.1 Warranty

The following instructions must be complied with in order for any warranty to be applicable regarding functionality and safe operation of this equipment.

Hermann Sewerin GmbH accepts no liability for any damages resulting from failure to observe these instructions. The warranty and liability provisions of the terms of sale and delivery of Hermann Sewerin GmbH are not affected by the information given below.

- The product must only be operated after the relevant instructions have been read and understood.
- The product must only be used for its intended purpose.

- The product is only suitable for use in industrial and commercial applications.
- Repairs must only be carried out by a specialist technician or by other suitably trained personnel.
- Changes or modifications to this product must not be carried out without approval from Hermann Sewerin GmbH. The manufacturer cannot be held responsible for damages if unapproved modifications have been made.
- All repairs must be carried out using replacement parts that have been approved by Hermann Sewerin GmbH.
- The manufacturer reserves the right to make technical modifications in the course of further development.

Generally applicable safety and accident-prevention regulations must be complied with, in addition to the information provided in this manual.

2.2 Intended use

The **F5** wireless headphones can be used to listen to noises in leak detection. They only work in conjunction with SEWERIN devices that feature SDR (Sewerin Digital Radio).

2.3 Safety information

- Do not drop the headphones. This could damage the internal radio module.
- If the **F5** headphones are worn properly on the head, they are splash-proof. Please note that this does not apply when the headphones have been removed. Moisture must not be allowed to penetrate the open side of the ear cup.
- Excessive noise can cause permanent damage to hearing. Always set the volume to a safe level.

3 Useful information about the headphones

3.1 Structure



The battery compartment is located inside the left ear cup. It is concealed by the inner cushion.

3.2 Distinguishing between the ear cups

The left and right ear cups of the **F5** headphones can be identified from the stickers.



Right ear cup



Left ear cup

The sticker for the left ear cup also serves as the ON/OFF button.

3.3 What the LEDs mean

The LEDs are integrated in the ON/OFF button.

LED	Signal	Significance
Green	Light permanently on	Headphones ready for operation
Red	Flashing	Undervoltage > replace/charge batteries
	Light permanently on	Charging underway or complete

For information about replacing/charging the batteries, please refer to Sections 5.1 and 5.2.

4 Listening to noise with the F5 headphones

4.1 Preparing the headphones for operation

To be able to listen to noise with the **F5** wireless headphones you must first establish a radio connection to the SEWERIN device.

1. Switch on the device.
2. Switch on the **F5** headphones by pressing the ON/OFF button.

The green LED will illuminate. The radio connection will be established automatically.

Note:

The **F5** headphones will automatically switch off after 4 hours to conserve energy. Press the ON/OFF button again if you want to continue listening to noise.

When both the **F5** headphones and the SEWERIN device are switched on, they form an integral unit. If another SEWERIN device with SDR is switched on within the range, it will not affect the radio connection between the two components.

4.2 Range (break in radio connection)

If you are outside the range of the radio connection between the **F5** headphones and the SEWERIN device, the **F5** headphones will go mute. You will no longer hear any noise. Once you move back into the reception radius, you will hear noise again.

5 Servicing

5.1 Replacing disposable/rechargeable batteries

The **F5** headphones can be operated with either disposable or rechargeable batteries. When the red LED starts flashing, it means that the remaining life of the disposable or rechargeable batteries is limited. Replace or recharge the batteries (see Section 5.2). Rechargeable batteries (accus) can also be changed if required.

The battery compartment is located in the left ear cup (with ON/OFF button).

1. Remove the inner cushion from the left ear cup.

2. Open the cover of the battery compartment.
3. Replace the disposable/rechargeable batteries. Ensure that the batteries are inserted with the correct polarity.
4. Close the battery compartment with the cover.
5. Place the inner cushion back into the ear cup.

5.2 Charging the batteries

The **F5** headphones have a charging socket for connecting a suitable AC/DC adapter (vehicle cable) to charge the batteries. The batteries must be charged for at least 3 hours.

1. Plug the charging plug of the AC/DC adapter (vehicle cable) into the charging socket of the **F5** headphones.



CAUTION!

The AC/DC adapter (vehicle cable) must only be connected when the **F5** headphones are fitted with rechargeable batteries.

2. Plug the AC/DC adapter into a mains socket (vehicle cable into cigarette lighter

adapter). The batteries will start to charge. The red LED on the **F5** headphones will illuminate.

Note:

It is not possible to overcharge the rechargeable batteries. The red LED will remain on even after the batteries have been fully charged.

The red LED on the **F5** headphones will go off as soon as the charging plug has been removed from the charging socket.

5.3 Adjusting the headphones

5.3.1 Adjusting the headband width

- Pull the wire headband evenly out of the sleeves on the joint or slide the band further into the sleeves.

Pull gently so that the headband does not slide out of the sleeves.

5.3.2 Reducing the pressure

- Pull the two ear cups apart so that the headband is slightly stretched.

Do not stretch it too far. The width of the headband can only be reduced again a limited extent.

5.4 Changing the ear cushions

The ear cushions can be replaced (e. g. for hygienic reasons, in the case of wear, when switching between universal and soundproofing headphones).

Note:

Change the ear cushions at room temperature where possible. Cold temperatures can cause the edge of the cushion to tear.

1. Remove the old ear cushion.
2. If necessary replace the inner cushion.
3. Slide the new ear cushion over two adjacent corners of the ear cup.

4. Preferably pull the cushion diagonally towards one of the opposite corners and slide it over the corner.
5. Finally pull the cushion over the fourth corner.
6. Check the edge of the cushion. It should lie flat on the ear cup.

6 Appendix

6.1 Technical data

Protection rating:	IP54
Power supply:	2 AA-size alkaline batteries (each min. 2500 mAh) or 2 NiMh rechargeable batteries (each min. 2000 mAh)
Operating time:	min. 8 h
Weight:	approx. 360 g
Operating temperature:	-20 – +60 °C
Storage temperature:	-25 – +70 °C
Frequency range:	0 – 10 kHz
Impedance:	16 Ω \pm 20% at 1 kHz, 1 V

SDR radio module:	<ul style="list-style-type: none">• Transmitting power: ≤ 10 dBm• Connection time: typically 10 ms• Frequency band: 2.408 – 2.476 Ghz Marking: <ul style="list-style-type: none">• FCC ID WSP-EZ1300102• IC 7994A-EZ1300102
Range:	provided no obstructionsinterfere with radio connection: <ul style="list-style-type: none">• at least 5 m• usually 10 m
Permissible relative humidity:	15 % – 90 % non-condensing

6.2 Accessories

Ear cushions

P1 (art. no.: EZ13-Z0300)

P2 sound protection (art. no.: EZ13-Z0400)

- complete set with inner cushions

M4 AC/DC adapter (art. no.: LD10-10001)

- 100 – 240 V~ / 12 V=

M4 vehicle cable (art. no.: ZL07-10100)

- 12 V=
- with plug for cigarette lighter adapter

Other accessories are available for the device. Please contact our sales department for further information.

6.3 EC Declaration of Conformity

Hermann Sewerin GmbH hereby declares that the **F5** Wireless Headphones fulfils the requirements of the following guideline:

- 1999/5/EC

The product belongs to radio equipment device class 1.

The complete declaration of conformity can be found online.

6.4 Advice on disposal

The European Waste Catalogue (EWC) governs the disposal of appliances and accessories.

Description of waste	Allocated EWC waste code
Device	16 02 13
Disposable battery, rechargeable battery	16 06 05

End-of-life equipment

Used equipment can be returned to Hermann Sewerin GmbH. We will arrange for the equipment to be disposed of appropriately by certified specialist contractors free of charge.

FCC Compliance Statements

The device has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the device is operated in a commercial environment. The device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this device in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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