

Tek wireless enhancement

User Guide

SIEMENS

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Introduction

Dear Customer,

Your hearing instruments equipped with e2e wireless™ 2.0 technology can be controlled by your new Tek Connect remote control.

This remote control offers you more hearing comfort in your daily activities. Via Bluetooth it links your hearing instruments to the expanding world of electronic media. It will support you when you watch television, listen to music or talk on the phone.

These instructions, together with the guidance from your Hearing Care Professional, will help you to understand how your remote control works.

If you have further questions, please contact your Hearing Care Professional.

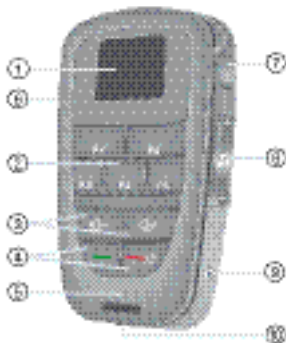
TEK

Included in delivery

Device and accessories:

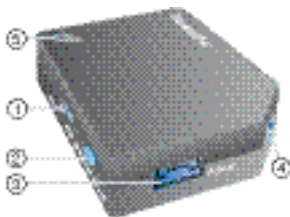
- Tek Connect remote control with rechargeable battery and lanyard

- ① Display
- ② Program buttons
- ③ Volume buttons
- ④ Telephone buttons; remote control on/off
- ⑤ Microphone opening
- ⑥ Key lock
- ⑦ Read out button; hearing instruments on/off
- ⑧ SoundBalance buttons
- ⑨ 2.5 mm stereo socket
- ⑩ Socket for power plug

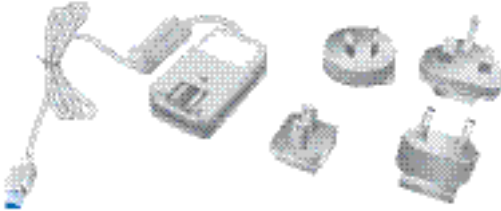


- Tek Transmitter

- ① On/off switch
- ② Sound level
- ③ Socket for power plug
- ④ 2.5 mm stereo socket
- ⑤ LED



- 2 Power plugs with country specific adapters (one for remote control, one for Tek Transmitter)



- Cables:

- 1.8 m audio cable with 3.5 stereo plug on one side and a 2.5 mm stereo plug on the other side
- 0.3 m audio cable with 3.5 stereo plug on one side and a 2.5 stereo plug on the other side



- Adapter set:

- 2.5 stereo plug to 3.5 stereo socket
- 6.3 stereo plug to 3.5 stereo socket
- RCA (cinch) to 3.5 stereo socket
- RCA (cinch) to SCART



Intended use

This remote control is intended to operate hearing instruments.

Read and follow the instructions of this user guide to avoid injuries or damage to remote control.

Symbols:

Be aware of information marked with the warning symbol **WARNING**, **CAUTION** or **NOTICE**!



WARNING points out a situation that could lead to serious injuries, **CAUTION** indicates a situation that could lead to minor and moderate injuries.

NOTICE

NOTICE indicates possible property damage.



Advice and tips on how to handle your device better.



Instruction. Indicates that something has to be done.

General notes on safety



WARNING

Wireless systems may interfere with devices and electronic equipment.

- ▶ Turn the remote control off when in hospitals or airplanes.
- ▶ Do not use with life supporting systems.



The remote control may respond when triggered by an external Bluetooth device.

NOTICE

The remote control is sensitive to extreme heat, high humidity, strong magnetic fields ($> 0.1T$), X-rays and mechanical stress.

- ▶ Do not expose the remote control to extreme temperature or high humidity.
- ▶ Do not leave it in direct sunlight.
- ▶ Do not immerse it in water.
- ▶ Do not place your remote control in a microwave oven.



In some countries restrictions for the usage of wireless equipment exist.

- ▶ Refer to local authorities for further information.



The performance of the e2e wireless function may be affected by electromagnetic interference – e.g. from a computer monitor or fluorescent lamp system.

- ▶ Move away from the source of interference if you experience difficulty.



▶ In the event your hearing instruments can be controlled by another person's remote control, return hearing instruments and remote control to your Hearing Care Professional.



WARNING

Risk of interference with cardiac pacemakers.

- ▶ Do not use the remote control if you are fitted with a cardiac pacemaker.



WARNING

Hazard of explosion in gas-filled spaces!

- ▶ Do not use your hearing instruments and remote control in areas where there is danger of explosions (e.g. mining).



WARNING

Strangulation hazard when lanyard gets entangled in moving mechanical parts of machines for example.

- ▶ Use only the delivered breakaway lanyard. It will automatically detach when entangled.
- ▶ Do not use lanyard for children under the age of twelve.



WARNING

Risk of explosion when the rechargeable battery is handled wrong.

- ▶ Do not short circuit, pierce, crush or disassemble the rechargeable battery.
- ▶ Prior to return the battery for recycling, tape the electrodes to prevent short circuit, which may cause the battery to explode.
- ▶ Do not place it in oven or fire.
- ▶ Do not immerse it in water.
- ▶ Charge the rechargeable battery between 0°C and 45°C.
- ▶ Remove the rechargeable battery when the instrument is not in use for a prolonged period of time.



Batteries contain harmful substances that pollute the environment.

- ▶ Do not throw used batteries into household trash.
- ▶ Return them to your Hearing Care Professional for environmentally correct disposal.



WARNING

Choking hazard posed by small parts.

- ▶ Keep batteries, small parts and remote control out of children's reach.
- ▶ If swallowed consult a physician or hospital immediately.

NOTICE

Please make sure that the power plug is easily accessible to remove it from power supply if necessary.

Getting started

Set up the remote control

Insert the rechargeable battery into the remote control:

- ▶ Insert first the top part of the battery (the part without contacts) into the top part of the battery compartment.
- ▶ Press down the bottom part of the battery into the battery compartment.

The contact areas of battery and battery compartment match up.

- ▶ Charge the rechargeable battery before first use.

Charging process

- ▶ Connect the remote control with the power plug to a power supply.

The charging process starts. Charging time is about 5 hours depending on the status of the rechargeable battery.

Charging is complete when the battery symbol shows a full battery.



Running time of the rechargeable battery

The running time of the rechargeable battery depends on the way the remote control is used.

- The function with the highest power consumption is the transmission of an audio signal. This function is active when telephoning or listening to an external device. The rechargeable battery will last about 6 hours in this case.

- When no transmission of audio signal is active and a phone is paired, the rechargeable battery will last several days.
- When no transmission of audio signal is active and no telephone is paired, the rechargeable battery lasts several months.

Display information

- ① Hearing program
- ② Program description (only available if programmed by your Hearing Care Professional)
- ③ Battery status of remote control



The remote control goes into a stand-by mode after a period of inactivity. In stand-by mode no information is shown on the display.

- ▶ Press any key to turn the remote control back into working mode to see the information on the display.

Wearing the remote control

- ▶ To operate your hearing instruments wear the remote control within a distance of 1 m (40 in) to the hearing instruments. You can wear the remote control, for example, in your pocket.



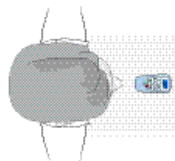
- ▶ For best listening quality when receiving an audio stream, wear the remote control with the lanyard around your neck. This way remote control and hearing instruments are in the proper distance and alignment.



You can also set the remote control on the table in front of you, for example when watching TV.



- ▶ For best listening quality turn the remote control in the same direction you are facing.



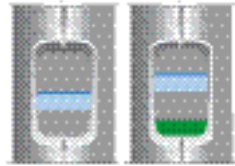
- ▶ When telephoning with the remote control, hold the remote control in your hand and speak directly into the microphone.



Basic functions

Your remote control has a key lock on the left side.

- ▶ Slide the control to the bottom to enable the key lock. Pressing the buttons will now have no effect.
- ▶ Slide the control to the top to disable the key lock.



locked / unlocked

Changing the hearing program



Your Hearing Care Professional can activate or de-activate acoustic signals in your hearing instruments. Acoustic signals confirm changes in the settings such as program, volume or SoundBalance.

The remote control allows you to control up to 5 programs of your hearing instruments.

Your Hearing Care Professional will program the settings in the different programmes for your particular listening needs.



- ▶ Press the number of the desired hearing program.

The remote control shows the number of the program you are in now.

You hear the acoustic signal for the chosen program in your hearing instruments.



Changing the volume

- ▶ Press  to increase the volume.
- ▶ Press  to decrease the volume.

Changing the SoundBalance (Treble)

With the rocker switch on the right side of the remote control you can change the sound of your hearing instruments.

- ▶ Press + (up) to get a more shrill sound.
- ▶ Press – (down) to get more muffled sound.



Reading out the hearing instrument's information

This functions gives you the possibility to view the current settings like battery status, volume or hearing program of your hearing instruments.

- ▶ Hold the remote control close to one of your hearing instruments (about 10 cm / 4 in).
- ▶ Press the read out button.



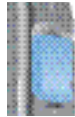
The display of the remote control shows you the following information:

- ① Hearing program with description
- ② Sound control of hearing instruments
- ③ Volume of hearing instruments
- ④ Battery status of hearing instruments left / right





Turning the hearing instruments on/off

- ▶ Press the read out button for more than 5 seconds to turn your hearing instruments off.
- ▶ Press one of the program buttons on the remote control to turn the hearing instruments back on.



Turning the remote control on/off

- ▶ Press  for about 5 seconds to turn the remote control off.
- ▶ Press  for about 5 seconds to turn the remote control back on.



WARNING

Wireless systems may interfere with measuring devices and electronic equipment.

- ▶ Turn the remote control off when in hospitals or airplanes.
- ▶ Prior to use in conjunction with an electronic implant or life supporting system, have the electromagnetic compatibility verified.

Display information

Symbols



program number



bluetooth connection active



phone connection active



full

battery status of remote control



empty



charging



volume up / volume down



treble up / treble down



key lock activated / deactivated



incoming call



active call



hearing instruments off



error

Display information

Symbols



searching bluetooth audio stream /
bluetooth audio stream active /
audio stream active

Read-out symbols



Sound balance and volume of hearing
instruments




battery status of left and right hearing
instrument

What is Bluetooth?

Bluetooth is a wireless standard that provides a way to wirelessly connect devices like cell phones, laptops, headsets and others.

Over a Bluetooth connection the devices can exchange information such as data, sound or even control commands. The range of the Bluetooth connection in the Tek Connect remote control is about 10 m (32 ft). Walls or objects in between the devices can shorten this distance.



The Bluetooth symbol  denotes if a device is Bluetooth compatible.

The Tek Connect remote control can be connected via Bluetooth to your cell phone or to the Tek Transmitter.

Follow the instructions in the following chapters to hear the sound of your cell phone, TV or mp3 player directly in your hearing instruments.

Using the remote control with a phone


The remote control allows you to use your hearing instruments as a wireless headset when you are telephoning with a Bluetooth compatible phone or cell phone.




Instead of using the telephone receiver, you speak into your remote control and listen through your hearing instruments.

Pairing remote control and phone

Before you can use the remote control with a phone for the first time you need to pair your phone and the remote control. The pairing process can be compared with an "introduction" of phone and remote control. After the pairing process the phone and remote control "know" each other. The pairing process does not need to be repeated.

- ▶ Activate the Bluetooth function in your phone. The display of your phone should show a Bluetooth symbol  when the Bluetooth function is activated.



- ▶ Press and hold  on the remote control for about 7 seconds.

The remote control changes to pairing mode. You now have 2 minutes to finish the pairing process.


- ▶ Search in the menu of your phone for other Bluetooth devices.
Your phone should find a device called "Tek Connect". This is the remote control.
- ▶ Choose this device to pair phone and remote control.
Your phone should ask you to insert a PIN.
- ▶ Insert "0000".




▶ Refer to the user guide of your connected device for more detailed information on how to link devices via Bluetooth.

Connecting remote control and phone

After pairing, the phone and remote control "know" each other. In order to listen to a call through your hearing instruments it is also necessary to connect the remote control to your phone. After connecting, the phone and remote control can "communicate" with each other.

- ▶ Press  to connect the remote control with the phone.
OR
- ▶ Connect the remote control over the menu of your phone.

The remote control shows the phone symbol  when your phone and your remote control are connected.

- The remote control can be paired with more than one phone.
- The remote control can be connected with only one phone at a time.

It is not necessary to have the remote control and the phone connected all the time. But only when connected to the phone the remote control will show an incoming call on the display and transfer the sound of your phone to your hearing instruments.



Depending on your phone also keypad tones will be transferred to your hearing instruments when phone and remote control are connected.



- ▶ If this function interferes with the program you are using deactivate the keypad tones in your phone.



The performance of the phones and cell phones described can slightly differ from the performance of your phone or cell phone.

Headset and hands-free

Most phones or cell phones connect to the remote control via "hands-free" mode. Some phones or cell phones use the "headset" mode. Refer to the table for the available functions in each mode.

	headset	hands-free
symbol shown in remote control		
taking a call	✓	✓
rejecting a call	x	✓
terminating a call	✓	✓
transferring an existing call	x	✓



Before using the remote control for telephoning for the first time you need to:

- ▶ Activate the bluetooth function in your phone.
- ▶ Pair phone and remote control.

Taking a call ...


... when remote control and phone are connected

The ringing is audible in your hearing instruments.

The remote control indicates an incoming call.





Depending on your phone, there might be no ringing audible in your hearing instruments when the phone is in silent mode.

- ▶ Press  to accept the incoming call.
- ▶ Speak into the microphone of the remote control to talk.





You need to speak within a range of about 0.5m (inches) from the microphone.



- ▶ Press   to terminate the call.
Your hearing instruments switch back to the hearing program you used before taking the call.

... when remote control and phone are not connected

The ringing will not be audible in your hearing instruments. The remote control does not show an incoming call.



- ▶ Press  to transfer the incoming call to remote control.
- ▶ Press  to accept the incoming call.
- ▶ Speak into the microphone of the remote control to talk. You need to speak within a range of about 0,5m (inches) from the microphone.
- ▶ Press   to terminate the call.
Your hearing instruments switch back to the hearing programm you used before taking the call.

Rejecting a call ...



... when remote control and phone are connected

- ▶ Press  to reject an incoming call.



... when remote control and phone are not connected

- ▶ Press  to transfer the incoming call to the remote control
- ▶ Press  to reject an incoming call.

Making a call

- ▶ Press  to connect remote control and phone.
- ▶ Dial the desired number on your cell phone.
You can hear the call connection signal and the ringing in your hearing instruments.
- ▶ Press  to terminate the call.

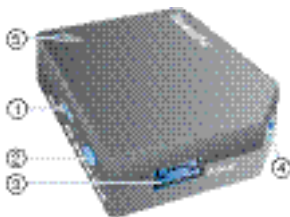
Transferring an existing call from/ to the remote control

- ▶ Press  to transfer an existing connection from your phone to your remote control.
- ▶ Press  to transfer an existing connection from your remote control back to the phone.

Using the Tek Transmitter

The Tek Transmitter allows you to use your hearing instruments as a wireless headset for any external device. Connected to the desired device, the Tek Transmitter submits the audio stream via the remote control to your hearing instruments.

- ① On/off switch
- ② Sound level
- ③ Socket for power plug
- ④ 2.5 mm stereo socket
- ⑤ LED



Turning the Tek Transmitter on/off

- ▶ Use the on/off switch to turn the Tek Transmitter on. The blue LED blinks, indicating that the Tek Transmitter is waiting to connect to the remote control. When the blue LED is on constantly, the connection to the remote control is established.
- ▶ Use the on/off switch to turn the Tek Transmitter off. Turn the Tek Transmitter off when not in use.

Sound level

The Sound level button allows you to increase or decrease the volume of the audio signal of the Tek Transmitter.

There are 5 volume levels.

- ▶ Press the Sound level button to change the volume of the audio signal.

The blue LED blinks. The number of times the LED blinks indicates the volume level.

Charging the Tek Transmitter

- ▶ Connect the Tek Transmitter with the power plug to a power supply.

A red LED indicates that the Tek Transmitter battery is charging.

Charging time is about 5 hours depending on the status of the rechargeable battery.

Charging is completed when the red LED goes out.

Connecting the Tek Transmitter with an external device

- ▶ Choose one of the cables delivered with the remote control and plug the 2.5mm (smaller) stereo plug into the Tek Transmitter.

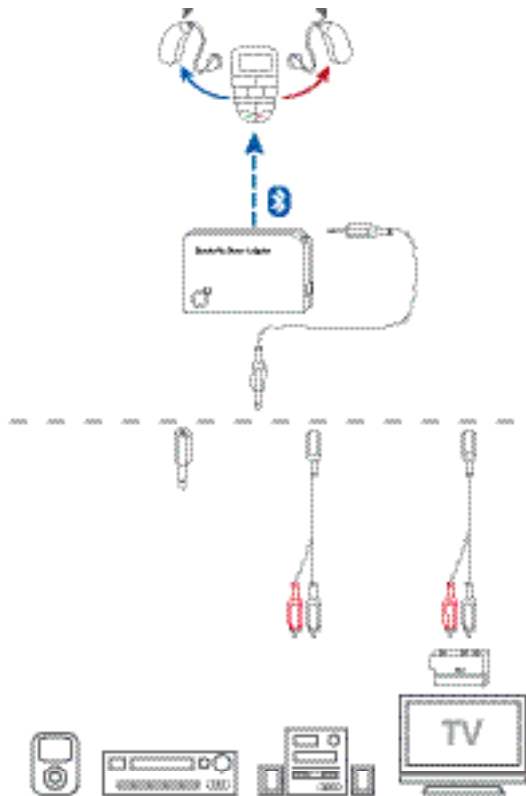
Depending on the device you want to connect the Tek Transmitter to, different adapters are included in the delivery:

- ① 2.5 stereo plug to 3.5 stereo socket
- ② 6.3 stereo plug to 3.5 stereo socket
- ③ RCA (cinch) to 3.5 stereo socket
- ④ RCA (cinch) to SCART



The graphic on the following page shows how different devices can be connected to the Tek Transmitter.

- ▶ Connect the external device to the Tek Transmitter according to the graphic.
Preferably, use the SCART or RCA (cinch) outlet.



Receiving the audio stream from an external device

- ▶ Connect the Tek Transmitter with the power plug to a power supply.



The Tek Transmitter has a rechargeable battery and can also work without a connection to a power supply.

- ▶ Ensure to charge the battery regularly in this case.

- ▶ Using the remote control, change to the audio program. It will take a few seconds for the remote control to connect to the Tek Transmitter. The blue LED on the Tek Transmitter confirms that the Bluetooth audio link is established.

You can now hear sound from the TV through your hearing instruments.

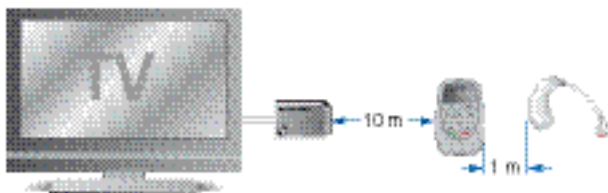


- ▶ For better sound quality keep the remote control within a range of 10 m (32 ft) to the Tek Transmitter and the hearing instruments within a range of 1 m (40 in) to the remote control.




- ▶ Keep the Tek Transmitter visible.

- ▶ If the sound is tinny or artificial ask your Hearing Care Professional for advice.

Receiving a phone call while watching TV



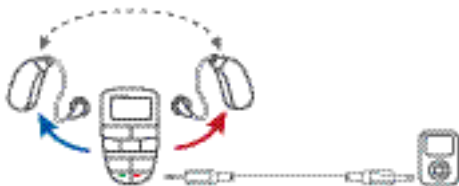
If your remote control and your phone are paired and connected you can still receive phone calls when you are connected to an external device. The hearing instruments will switch automatically to the telephone program when your phone rings.

- ▶ Press  to answer the phone.
- ▶ Press   to reject the call.

The hearing instruments will change back to the audio program after you have finished the call.

Using the direct audio input

The remote control allows you to use your hearing instruments as a wireless headset when you are listening to the music on your mp3 player or another audio device.



Connecting directly to your mp3 player

- ▶ Choose one of the cables delivered with the remote control and plug the 2.5mm (smaller) stereo plug into the remote control.
- ▶ Connect the other side of the cable with a 3.5mm jack to the external device. Use one of the adapters if your device does not have a 3.5mm jack.
- ▶ Change to the audio program. The remote control shows the symbol for direct audio input.



You can hear the sound of your mp3 player through your hearing instruments.



If you choose the audio program without an audio device connected to your remote control, the remote control will search for a connection to the Tek Transmitter.

Receiving a phone call while using the direct audio input

If your remote control and your phone are paired you can still receive phone calls while using the direct audio input. The hearing instruments will switch automatically to the telephone program when your phone rings.

- ▶ Press  to answer the phone.
- ▶ Press  to reject the call.
- ▶ Your hearing instruments will change back to the audio program.



WARNING

Risk of injuries caused by electric shock!

- ▶ Connect audio input only to a device conforming to IEC 60065 (IEC-Norm for audio, video and other electronic devices).



- ▶ While charging do not use the line-in audio input with devices that are connected to the power supply.

Maintenance and care

NOTICE

- ▶ Do not put your remote control in water!
- ▶ Do NOT clean your remote control with alcohol or benzine.



- ▶ Clean the remote control as necessary with a soft tissue.
- ▶ Avoid abrasive cleaning liquids with additives such as citric acids, ammonia, etc.

Technical information

Siemens Tek Connect remote control

FCC: SGI-WL201AP

IC: 267AB-WL200AP

Operating frequencies: $F_c=3,28$ MHz

Max. field strength @ 10m: 41 dB μ V/m

Max. field strength @ 30m: 21 dB μ V/m

CE, FCC and IC compliance information can be found inside the battery compartment.



N14203

This Class B digital apparatus complies with Canadian ICES-003.

Changes or modifications made to this equipment not expressly approved by SAT GmbH for compliance may void the FCC authorization to operate this equipment.

FCC compliance

This device complies with Part 15 of the FCC Rules and with RSS-210 of Industry Canada.

Operation is subject to the following conditions:

- this device may not cause harmful interference, and
- this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part

15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Siemens Transmitter

IMPORTANT NOTE: IC Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

Technical Data - power supply

Fuhua Model: UE10W-050080SPC	
Input voltage:	100-240 V AC
Input current:	150 mA
Input frequency:	50-60 Hz
Output voltage:	5 VDC
Output current:	0.8 A

Disposal information

Within the European Union, the marked equipment is covered by "Directive 2002/96/EC of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment."



Amended by "Directive 2003/108/EC" (WEEE).



- ▶ Recycle the device and accessories according to national regulations.

With the CE marking Siemens confirms compliance with the European Directive 93/42/EEC concerning medical devices and the European Directive 99/5/EC (R&TTE) concerning radio and telecommunications terminal equipment.



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