



ENGLISH

Operating Instructions

Please read and observe the following information and keep the operating manual nearby for future reference!

The WTF 800 operates on 8 channels. The radio is built according to the IPX7 standard. This implies that it is submersible: it will float in water and it can be held 1 meter below the water surface during 30 minutes without being damaged. After your radio is submerged in water, you might notice that the sound is distorted. This is because there is still water remaining in and around the speaker and microphone. Just shake the radio to clear excess water, and the sound should return to normal. If your radio is exposed to salt water, clean your radio thoroughly with fresh water, and dry it before turning it on.

WARNING!

- Safety information**
- Risk of explosion!
 - ➔ Only use the power adapter plugs supplied!
 - ➔ Only use batteries supplied or ones of the same type!
 - ➔ Always treat batteries with due care and attention and only use batteries as described.
 - ➔ Never use standard and rechargeable batteries together. Never use rechargeable batteries or standard batteries with different capacities or charge statuses together. Never use standard or rechargeable batteries which are damaged.
 - Risk of suffocation through small objects, packaging and protective foil!
 - ➔ Keep children away from the product and its packaging!
 - Risks to health and the environment from batteries!
 - ➔ Never open, damage or swallow batteries or allow them to pollute the environment. They could contain toxic and ecologically harmful heavy metals.
 - If the cover of the antenna is damaged, do not touch because when an antenna comes in contact with the skin, a minor burn may result when transmitting.
 - Keep the PMR at least 15 centimetres away from a pacemaker.
 - Turn your PMR OFF as soon as interference is taking place with medical equipment.

CAUTION!

- Areas with potentially explosive atmospheres are often, but not always, clearly marked. They include fuelling areas such as below deck on boats, fuel or chemical transfer or storage facilities; areas where the air contains chemicals or particles, such as grain, dust or metal powders; and any other area where you would normally be advised to turn off your vehicle engine.

- Description**
1. Antenna
 2. LCD display
 3. On/Off key
 4. Speaker volume up
 5. Speaker volume down
 6. OK / Keylock - key
 7. Menu key
 8. Microphone
 9. Speaker
 10. Call key
 11. Sub-channel/Group key SUB/GRP
 12. Channel down
 13. Channel up
 14. Monitor key MON
 15. PTT-key
 16. Channel indication
 17. Call / Missed call icon
 18. RX icon
 19. Group icon
 20. Sub channel/Menu item/Group number,... indication
 21. Battery level indication, full empty

Verpackungsinhalt
 2 x WTF 800, 1 x Duo charger, 1 x Power adapter, 2 x NIMH battery pack, 2 x Belt clip, User guide

LEGAL!

- In some countries it is prohibited to use your PMR while driving a vehicle. In this case leave the road before using the device.
 - Turn your PMR OFF when on board an aircraft when instructed to do so. Any use of the PMR must be in accordance with airline regulations or crew instructions.
 - Turn your PMR OFF in any facilities where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external RF energy.
 - Replacing or modifying the antenna may affect the PMR radio specifications and violate the CE regulations. Unauthorised antennas could also damage the radio.
 - Do not touch the antenna while transmitting, it could affect the range.
 - Remove the batteries if the device is not going to be used for a long period.
- Intended purpose**
- It can be used for recreational purposes. For example: to keep in contact during travelling with 2 or more cars, biking, skiing.

USING A PMR DEVICE

To communicate between PMR devices they need to be set all on the same channel and sub-channel (CTCSS/DCS) and within receiving range (up to max.10 km in open field). Since these devices use free frequency bands (channels), all devices in operation share these channels(total 8 channels). Therefore, privacy is not guaranteed. Anybody with a PMR set to your channel can overhear the conversation. If you want to communicate (transmitting a voice signal) you need to press the key (15). Once this key pressed, the device will go into transmit mode and you can speak into the microphone. All other PMR devices in range, on the same channel and in standby mode (not transmitting) will hear your message. You need to wait until the other party stops transmitting before you can reply to the message. At the end of each transmission the unit will send a beep if the Roger Beep is enable (See Roger Beep On/Off). To reply, just press the key (15) and speak into the microphone. If 2 or more users press the key (15) at the same time the receiver will receive only the strongest signal and the other signal(s) will be suppressed. Therefore you should only transmit a signal (press key (15)) when the channel is free. The range of radio waves is strongly affected by obstacles such as buildings, concrete/metal structures, the unevenness of the landscape, woodland, plants, ... This implies that the range between two or more PMR's may in some extreme cases be restricted to a maximum of a few tens of meters. You will soon notice that PMR works best when there is a minimum of obstacles between users.

- GETTING STARTED**
- Installing / Removing the belt clip**
- ➔ To remove the belt clip from the unit, push the belt clip (B) towards the antenna, while pulling the clip tab (A).
 - ➔ When re-installing the belt clip, a click indicates that the belt clip is locked into position.

- Installing the batteries**
- ➔ Open the battery compartment. Use a screwdriver or a coin to turn the screw counter clockwise.
 - ➔ Put in the battery. The battery pack label will indicate the correct position of the battery.
 - ➔ Before closing the battery door, check the rubber seal around the battery compartment. Make sure that the seal is in good condition and that there is no foreign matter under the seal.
 - ➔ Close the battery compartment door and tighten the screw again (clockwise).

- Charging the batteries**
- ➔ Plug one end of the supplied adapter into an easy accessible electric socket and the other end into the connector on the backside of the desktop charger.
 - ➔ Make sure that the radio is turned OFF.
 - ➔ Put the radio in the charger.
 - ➔ The charging LED will turn on if it's properly inserted and charging.
 - It will take about 16 hours to fully charge the Ni-Mh battery.

- Turning the Unit ON/OFF**
- ➔ Press and hold the key (3) for 2 seconds. The unit will "beep" and the LCD display will display the current channel.

- Receiving a signal**
- The unit is continuously in the receive mode when the unit is switched ON and not transmitting.

- Transmitting a signal**
- In order for other people to receive your transmission, they must also be on the same channel and have set the same sub-channel
 - ➔ Press and hold the key (15) to transmit. The TX symbol is displayed.
 - ➔ Hold the unit in a vertical position with the microphone 10cm from the mouth and speak into the microphone (8).
 - ➔ Release the key (15) when you want to stop transmitting.

- Changing channels**
- ➔ Use the key (13 / 12) to go to a higher or lower channel.
 - ➔ After selecting the desired channel, press the key (6) to confirm.

- Sub -channels**
- License free PMR radio's operating on the 446 MHz frequency band, have 8 available radio channels. If there are many PMR users in your neighborhood, there is a chance that some of these users are operating on the same radio channel. To prevent that you receive signals from other users, sub-channels have been integrated. Two PMR radio's will only be able to communicate with each other when they are operating on the same radio channel and when they have selected exactly the same sub-channel.
- There are two kind of sub-channels :
- **Continuous Tone Coded Squelch System (CTCSS)**
 - **Digital Coded Squelch (DCS)**
- When using CTCSS, a low frequency tone (between 67 and 250 Hz) will be transmitted along with the voice signal. There are 38 available tones to choose from. You are free to choose one of these 38 available tones. Due to filtering, these tones will generally not be audible so they will not disturb the communication. DCS is similar to CTCSS, but instead

of sending a continuous tone of a selected frequency, a digital data transmission is added to the radio signal. This Digital Code is transmitted at a really low rate, around 134 bits per second (the code is 23 bits long). Only the PMR's of the latest generation will support DCS. There are 83 available DCS codes that can be used. Since earlier models will only support CTCSS it will be better to use DCS to prevent that other users will be audible during your PMR conversations.

- Changing sub-channels**
- ➔ Press the key (11), the current selected sub-channel (or OFF in case of no sub-channel) will blink.
 - ➔ Use the key (13 / 12) to select the desired subchannel:
 - 1..38: CTCSS code (1...38)
 - 39..121: DCS code (1...83)
 - ➔ Press the key (6) to confirm

- Making a call**
- ➔ When you press the key (10) you will transmit a call tone to the other users on the same channel/sub-channel.
 - This will indicate that you want to start a conversation.

- Call tones**
- There are 10 different call tones. You can select a call tone in the menu.
 - ➔ Press the key (7) three times (four times in Group mode)
 - ➔ Press the key (6)
 - ➔ Use the key (13 / 12) to select the call tone
 - ➔ Press the key (6) to confirm

- Monitor**
- You can use the monitor function to check for weaker signals in the current channel.
 - ➔ Press the key (14) to start monitoring.
 - ➔ If you hold this key for more than 3 seconds, the radio will go into continuous monitoring mode.
 - ➔ Press the key (14) again to disable the monitor function.

- Channel Scan**
- Channel scan performs a search for active signals in an endless loop from channel 1 to 8. Once an active channel is found, the scanning will stop so you can listen to the conversation. If there is no more activity on the found channel, the scanning will resume after two seconds. If you press the key (15) on the found channel, the scan function will end and the radio will remain on this channel.
 - ➔ Press the key (7) SCAN will appear on the display
 - ➔ Press the key (6) to start scanning
 - ➔ Press the key (7) to stop scanning while the radio is scanning".

- Silent mode**
- In silent mode no audio can be heard when receiving a signal. When receiving a signal (or a call) in silent mode the following will happen:
 - The display backlight, SLNT and channel number will flash during 15 seconds
 - The "Missed Call" icon (17) will blink on the display
 - The vibrator will vibrate during 3 seconds
 - In the next 3 minutes, the vibrator will vibrate again every minute.
 - Once a key is pressed or a transmission is made by pressing the key (15) or the key (10), the silent mode will be temporary disabled so the PMR radio will be able to receive signals. If there is no action during 15 seconds the unit will go back into silent mode.

- Enable / Disable silent mode**
- ➔ Press the key (7) twice SLNT will appear on the display
 - ➔ Press the key (6)
 - ➔ Use the key (13 / 12) to enable (ON) or disable (OF) the silent mode

- Roger Beep On/Off**
- ➔ Press the the key (7) five times (six times in Group Mode) RGR will appear on the display
 - ➔ Press the key (6)
 - ➔ Use the key (13 / 12) to enable (ON) or disable (OF) the Roger Beep
 - ➔ Press the key (6) to confirm

- Key Tone On/Off**
- ➔ Press the the key (7) six times (seven times in Group Mode) TONE will appear on the display
 - ➔ Press the key (6)
 - ➔ Use the key (13 / 12) to enable (ON) or disable (OF) the key tone
 - ➔ Press the key (6) to confirm

- Key lock**
- ➔ Press and hold the key (6) during three seconds to enable/disable key lock
 - When key lock is enabled, the PTT-key , the volume control-keys, the monitor-key (MON), the call-key and the power-key will still be operational. All other keys are locked. In "Group Mode" (next chapter) the call-key will also be locked when key lock is enabled.

- Group Mode**
- The WTF 800 can be used in group mode. 122 different groups can be created (0..121). You can use at maximum 16 WTF 800 in the same group. Each WTF 800 can be programmed with an ID-code (1..16) and each user can program his name in the unit. A user can call another user individually or call all users in the group at the same time. The called user will be able to see who initiated the call. When an individual user is called, a private conversation can be made without disturbing the other users of the same group.

- Activating / Deactivating Group mode**
- ➔ Press and hold the key (11) for two seconds GRP will appear on the display
 - ➔ Press and hold the key (11) for two seconds GRP will disappear from the display

- Change the group code**
- You can select 122 different group codes
 - ➔ Press the key (11) the current selected group code will blink
 - ➔ Use the key (13 / 12) to select the desired code
 - ➔ Press the key (6) to confirm

- Entering unit ID / unit name**
- In one group you can create 16 users. Each user has its own ID (1..16) and name.
 - ➔ Press the key (7) four times (5 times in Group mode)
 - ➔ Press the key (6)
 - ➔ Use the key (13 / 12) to select the unit ID (1..16)
 - ➔ Press the key (6) to confirm
 - ➔ Use the key (13 / 12) to select the character of the name
 - ➔ Press the key (6) to go to the next character
 - ➔ When finished, Press the key (7)
 - Make sure that all units have a different ID and name. If two units have the same ID, "FAIL" will appear on the display when all users are called.

- Transmitting your unit ID / unit name to other users**
- When you have successfully entered your unit ID / unit name you can broadcast the ID / name to all other users of your group. Make sure that all PMR's are set to the same channel/group code!
 - ➔ Press the key (10) twice to broadcast the call to all users
 - All users in range on the same channel and in the same group will now receive the ID and name of the PMR radio. Repeat this procedure for all units so all ID's / user names will be stored in all PMR's.

- Call all users**
- When you call all users in group mode, all units in range will receive the call. Your name will also appear on the display of the other users and the units will beep (or vibrate in silent mode).
 - ➔ Press the key (10) twice to broadcast the call to all users

- Private call**
- You can call one individual user by selecting his ID / user name. The other users will not hear this call. Additionally, when the call is answered you will be able to make a private conversation so no other users of the group will be able to hear you and your called partner.
 - ➔ Press the key (10)
 - ➔ Use the key (13 / 12) to select the ID / name of the user you want to call
 - ➔ Press the key (10) again to broadcast the call
 - The receiver will see the name of the user who is calling and an alert tone will be heard. By pressing a key, the alert tone will stop. If the receiver of the call presses the key (15) within 15 seconds, the conversation between both users will be private. Both users will see each other's name on the display. If there is no transmission between the users during 15 seconds, the private conversation will be disabled.

- Changing the group channel for all users**
- Any user in a group has the option to change the group channel for all PMR's at the same time. This feature is only available when the PMR is set in group mode!
 - ➔ Press the key(7) three times in Group mode
 - ➔ Press the key (6)
 - ➔ Use the key (13 / 12) to select new channel
 - ➔ Press the key (6)
 - All users of the group in range will receive the command and the channel will be changed automatically.

Technical data (All Rights Reserved!)	
Feature	Value
Channels	8 PMR
Sub Codes	38 Sub-Audible Tones, 83 DCS Codes
Power Source	NIMH Battery Pack
Range	Up to 10 km
Battery Life	16 Hours typ.

Power adapter plug
 Using the energy-efficient power adapter plug S002CV0900021 (input 100-240 VAC, output 9 V_{DC}, 210 mA)

Service hotline
 In the case of technical problems, contact our Service hotline. Switzerland: Tel. 0900 00 1675 (national charges, Swisscom at time of going to print: CHF 2.60/min). In the case of claims under the terms of guarantee, contact your sales outlet.

Maintenance
 Clean the surface of the housing with a soft, fluff-free cloth. Do not use any cleaning agents or solvents.

Guarantee
 SWITEL equipment is produced and tested according to the latest production methods. The implementation of carefully chosen materials and highly developed technologies ensure trouble-free functioning and a long service life. The terms of guarantee do not apply to the batteries or power packs used in the products. The period of guarantee is 24 months from the date of purchase. All deficiencies related to material or manufacturing errors within the period of guarantee will be redressed free of charge. Rights to claims under the terms of guarantee are annulled following tampering by the purchaser or third parties. Damage caused as the result of improper handling or operation, normal wear and tear, incorrect positioning or storage, improper connection or installation or Acts of God and other external influences are excluded from the terms of guarantee. In the case of complaints, we reserve the right to repair defective parts, replace them or replace the entire device. Replaced parts or devices become our property. Rights to compensation in the case of damage are excluded where there is no evidence of intent or gross negligence by the manufacturer. If your device does show signs of a defect within the period of guarantee, please contact the sales outlet where you purchased the SWITEL device, producing the purchase receipt as evidence. All claims under the terms of guarantee in accordance with this agreement can only be asserted at the sales outlet. No claims under the terms of guarantee can be asserted after a period of two years from the date of purchase and hand-over of the product.

Disposal

In order to dispose of your device, take it to a collection point provided by your local public waste authorities (e.g. recycling centre). According to the laws on the disposal of electronic and electrical devices, owners are obliged to dispose of old electronic and electrical devices in a separate waste container. The adjacent symbol indicates that the device must not be disposed of in normal domestic waste! You are legally obliged to dispose of power packs and batteries at the point of sale or in the corresponding containers provided at collection points by local public waste authorities. Disposal is free of charge. The symbols indicate that the batteries must not be disposed of in normal domestic waste and that they must be brought to collection points provided by local public waste authorities. Packaging materials must be disposed of according to local regulations.

Declaration of Conformity

This device fulfils the requirements stipulated in the Directive 1999/5/EC on radio equipment and telecommunications terminal equipment and the mutual recognition of their conformity. Conformity with the above mentioned directive is confirmed by the CE mark on the device. To view the complete Declaration of Conformity, please refer to the free download available on our web site www.switel.com.