

ATC



Avalanche Training Center

Bedienungsanleitung - User Manual - Manuel d'utilisation - Istruzioni per l'uso

1. Introduction

The ATC Avalanche Training Center is a stationary system for training transceiver and probe search.

The system has been proven for a long time and has been overhauled completely in the year 2015. Some innovative solutions provided decisive advantages to the users and to the operators.

The system can simulate from five to sixteen transceivers. The transmitters that are buried in the search area emit signals that are exactly equal to the signals from real avalanche transceivers.

At the control unit, the remotely controlled transmitters can be selected at random (standard mode) or individually (expert mode). This allows for training simple as well as complex (multiple burials) burial situations.

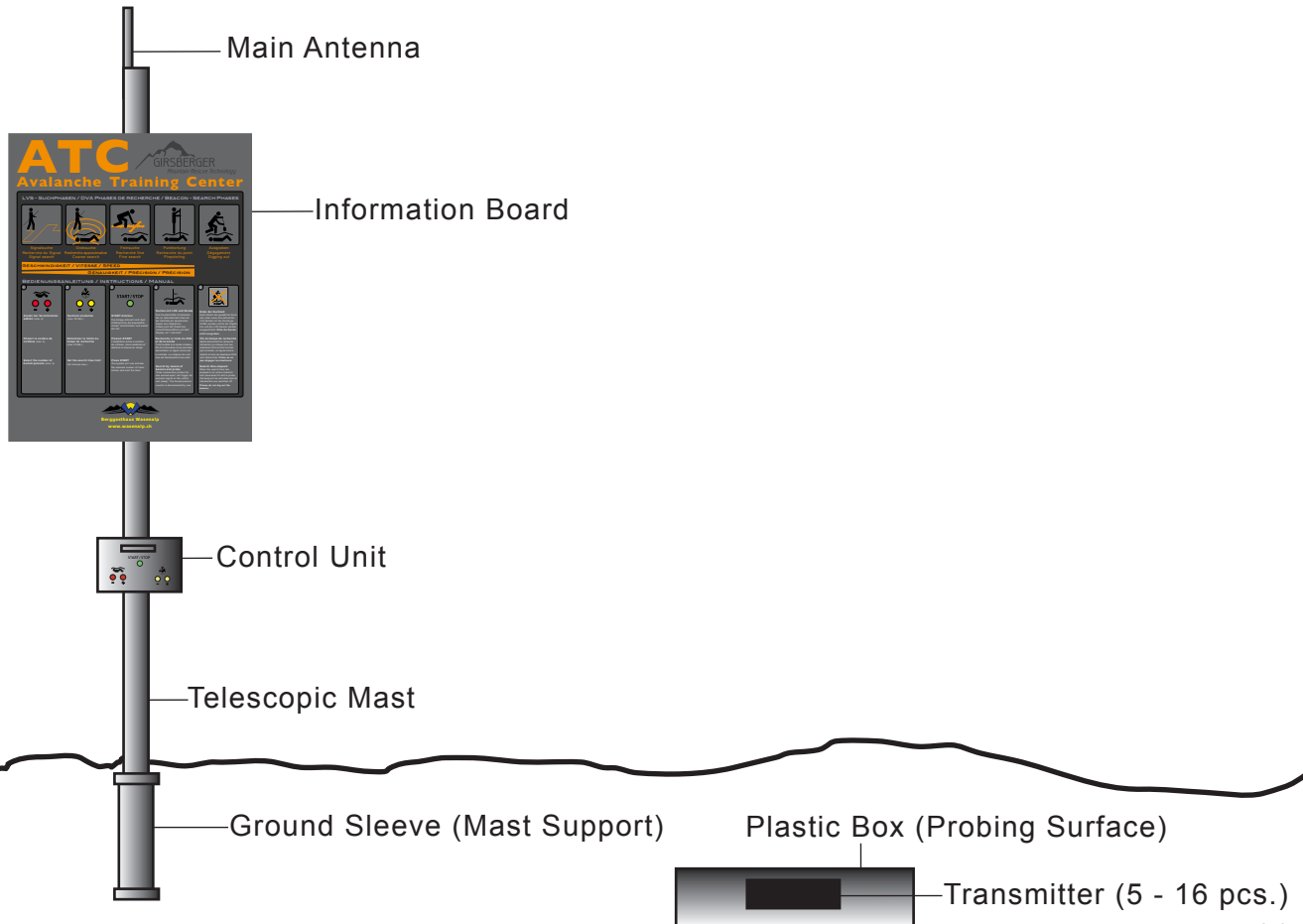
The transmitters will provide automatic feedback upon a probe hit. A probe hit on the probing surface of a transmitter is indicated at the control unit and signaled acoustically. The search times for every transmitter are also indicated.

The control unit also incorporates a counter for the number of exercises that can be read out at any time.

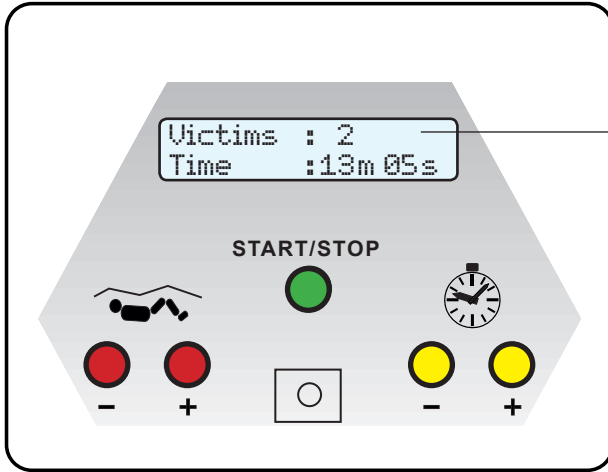
The entire system is equipped with standard batteries for autonomous operation throughout a winter season. No mains supply required.

In order to save precious energy, the system automatically enters a sleep mode when not used for some time. There is no need to turn the system off manually.

2. System Components



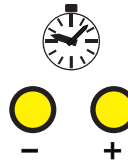
3. User Interface



The system provides a LCD-display for the operating status, the number of buried victims (VICTIMS) and the maximum search time (TIME)



Keys - **VICTIMS** and + **VICTIMS** for setting the number of buried transmitters to be activated (VICTIMS) 1 to 5



Keys - **TIME** and + **TIME** for presetting the maximum duration (1 to 20 minutes) of an exercise.

START / STOP



Key **START / STOP** for starting and stopping exercises and for selecting the operating mode.

4. Standard Mode

In standard mode, the selected number of transmitters is activated at random, and the stopwatch is started.

Three consecutive probe hits, one second apart each, on the probing surface will cause an optical and acoustic indication at the control unit. The activated transmitters keep transmitting even after a probe hit. This corresponds to a realistic situation. Most transceivers provide facilities to mark found transmitters. When all transmitters have been hit by a probe or when the maximum duration of the exercise has elapsed, the end of the exercise is signaled acoustically.

After termination of the exercise, the search times for the individual transmitters can be read out on the control unit.

4.1 Starting the System

```
Waking up...  
Time      :00m 35s
```

When the **START / STOP** key is pressed, the system will be started up within 35 seconds.

```
Searching -> 5  
1 2 3 4 5
```

After the startup, an automatic search for all available transmitters is activated.

```
Search complete  
1 2 3 4 5 6 7 8
```

All transmitters that have been found will be indicated. Only those can be used for exercises in the standard or expert mode.

```
Victims: 0  
Time    :10m 00s
```

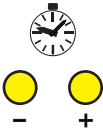
The system is now ready.

4. Standard Mode

4.2 Preparation



Select the number of transmitters (5 maximum).



Select the duration (20 minutes maximum).

```
Victims: 3
Time    :11m 00s
```

4.3 Start

```
Starting.....
```

Pressing the **START / STOP** starts the exercise. The transmitters are selected at random from the ones that are available, and the stopwatch is started. The search by means of a transceiver and a probe can now be started.

START/STOP



The exercise may be terminated at any time by pressing the **START / STOP** key again. All activated transmitters will be deactivated automatically.

4. Standard Mode

4.4 During the Exercise

```
Victims: 2  
Time    :10m 38s
```

On the upper line of the display, the number of remaining transmitters is indicated. On the lower line, the remaining time for the exercise is indicated.

4.5 Probe Hits

```
Victims: 1  
Time    :07m 46s
```

The transmitters will automatically indicate a probe hit. Three consecutive probe hits, one second apart each, on the probing surface will cause an optical and acoustic indication at the control unit.

With every probe hit, the number of remaining transmitters will be decremented.

4.6 End of the Exercise

```
Stopping.....
```

When all transmitters have been hit by a probe or when the maximum duration of the exercise has elapsed, the end of the exercise is signaled acoustically.

4. Standard Mode

4.7 Search Times

```
Search time used  
Vict :1 05m 37s
```

When all transmitters have been hit by a probe or when the maximum duration of the exercise has elapsed, the search times for every transmitter can be read out.

You can scroll through the list of transmitters by means of the **- VICTIMS / + VICTIMS** keys. Pressing any other key will return the system to starting point.

If the exercise is terminated by pressing the **START / STOP** key, then there is no search time indication.

If no key is pressed for 60 seconds during search time indication, then the system also returns to starting point.

4.8 Sleep Mode

```
Going to sleep
```

When no key is pressed for 30 minutes, the control unit as well as the buried transmitters will enter the sleep mode. There is no need for manually switching off the system.

Pressing any key will wake up the system again within 35 seconds.

5. Expert Mode

In expert mode, every transmitter can be activated and deactivated individually.

Three consecutive probe hits, one second apart each, on the probing surface will cause an optical and acoustic indication at the control unit.

The activated transmitters keep transmitting even after a probe hit. This corresponds to a realistic situation. Most transceivers provide facilities to mark found transmitters.

5.1 Starting Point

```
Victims: 0  
Time   :10m 00s
```

For entering the expert mode, the system must be in standard mode (also see section 4.1)

5.2 Selecting the Operating Mode

START/STOP

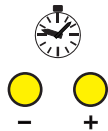


```
Vict :1   On: no
```

Pressing the **START / STOP** key for at least five seconds enters the expert mode. To return to standard mode, press the **START / STOP** key again for at least five seconds.

5. Expert Mode

5.3 Activating / Deactivating a Transmitter



You can scroll through the list of available transmitters by means of the **+ VICTIMS / – VICTIMS** keys.

The selected transmitter will be indicated on the upper line of the display. On the lower line, the status of the transmitter will be indicated (activated / deactivated).

The **+ TIME** key activates the selected transmitter, the **– TIME** key deactivates it.

```
Vict :1  On: yes
```

5.4 Probe Hits

```
1*  
Vict :1  On: yes
```

The transmitters will automatically indicate a probe hit. Three consecutive probe hits, one second apart each, on the probing surface will cause an optical and acoustic indication at the control unit.

On the upper line of the display, an asterisk will show up after the number of a transmitter that has been hit.

5. Expert Mode

5.5 Sleep Mode

Going to sleep

When no key is pressed for 60 minutes, the control unit as well as the buried transmitters will enter the sleep mode. There is no need for manually switching off the system.

Pressing any key will wake up the system again within 35 seconds.

9. Information

9.3 Interference

Transceivers are very sensitive to electrical and magnetic interference. We recommend keeping adequate distance from portable radios, mobile phones, headlamps, action camcorders and the like.

Switch off all unused transceivers when doing an exercise.

Girsberger Elektronik AG
Mountain Rescue Technology
Oberdorfstrasse 7
CH-8416 Flaach
T +41 (0) 52 301 35 35
info@girsberger-elektronik.ch
www.girsberger-elektronik.ch

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