

ATC



Avalanche Training Center

User Manual

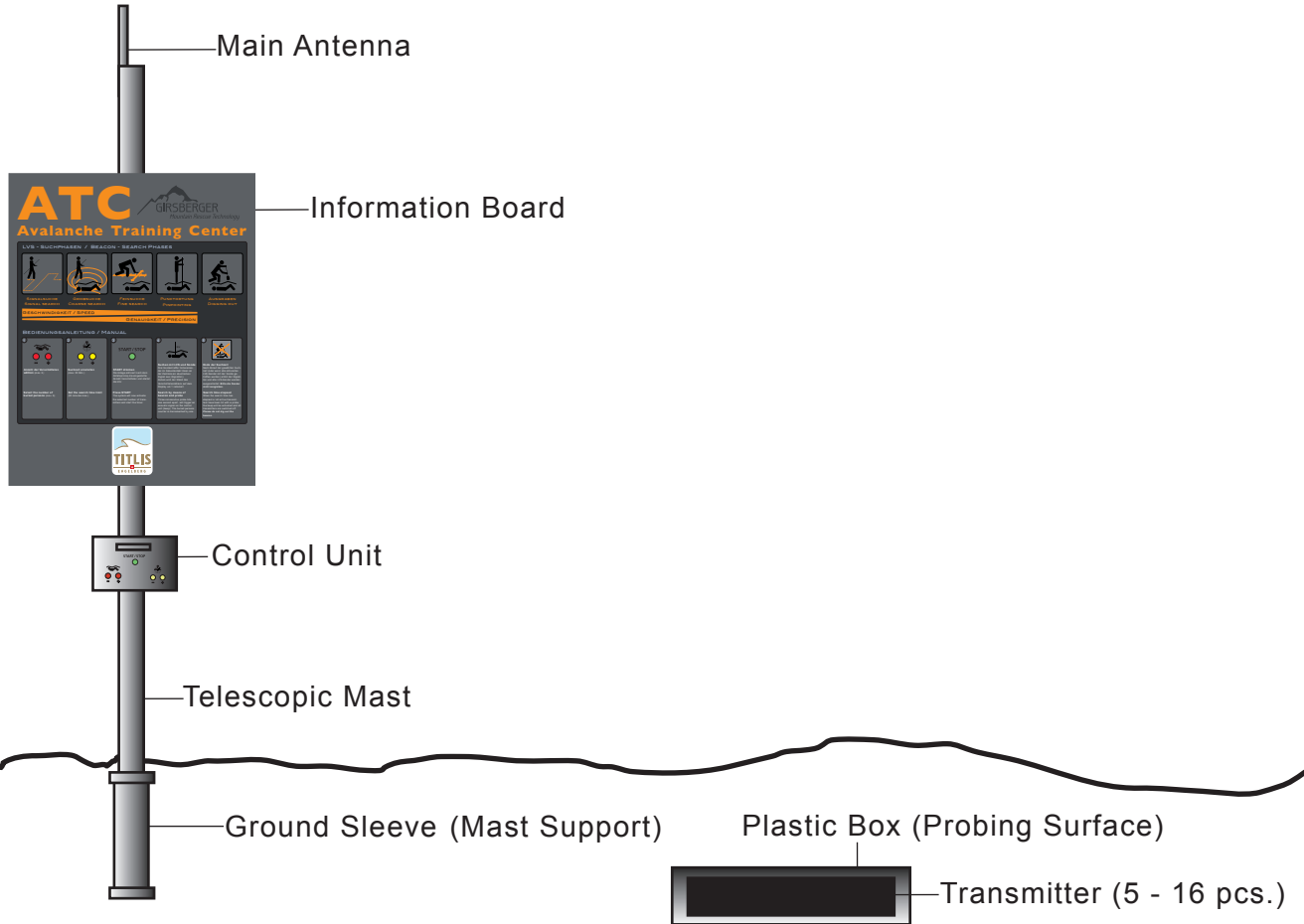
Contents



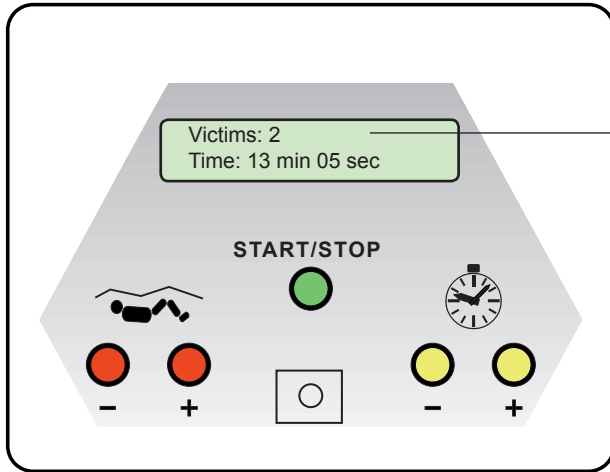
User Manual

System Components	1
User Interface Elements	2
Training Mode	3
Expert Mode	4
Sleep Mode	5
System Ready for Use, Checking	6
Technical Data	7
Warranty	8

1. System Components



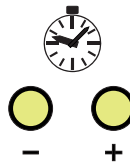
2. User Interface Elements



Two line display for the number of buried persons (VICTIMS) and for the search time (TIME)



Key **-VICTIMS** and **+VICTIMS** to enter the number of buried persons (i.e. activated transmitters). The number selected is shown on the display (VICTIMS).



Key **-TIME** and **+TIME** for search timeout entry. The time can be adjusted from 1 minute to 20 minutes in steps of one minute. The time is shown on the display.

START/STOP

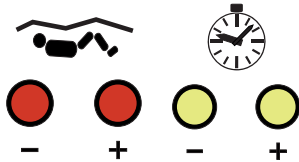


START/STOP key to start and to terminate a training exercise.

Note

3. Training Mode

Victims: 2
Time: 11 min 00 sec



Starting.....



1. Preparation

Select the numer of the buried persons
e.g. 2

Set the search time limit
e.g. 11

2. Start

Press the START key.
The system will now do a random selection of the entered number of transmitters (buried persons).
The selected transmitters are activated and the time countdown starts.

The exercise begins now.

3. Training Mode

Victims: 2
Time: 10 min 37 sec

3. During the Training

START/STOP

The top line of the control unit display indicates the number of transmitters that remain to be located.

The bottom line shows the remaining search time.

Probe Hit: *Note that every time an activated transmitter (buried person) is hit by probing, the control unit issues an acoustic signal and decrements the number of remaining transmitters by one.*

Stopping.....

4. End of Training

When all activated transmitters (buried persons) have been hit by probing, or when the timeout has elapsed, the control unit issues an acoustic signal and turns all buried transmitters off.

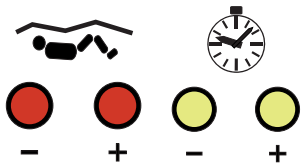
4. Expert Mode

1+- Vict ON/OFF

START/STOP



2* 4
8 + - Time Select



1. Selecting the Operating Mode

To select the expert mode, press the **START/STOP** key for at 5 seconds. As a prerequisite, the number of buried persons (victims) must be set to 0. While in the expert mode, you can activate and deactivate individual transmitters.

To return to the Training Mode, press the **START/STOP** key for at least 5 seconds again.

2. Activating and Deactivating Individual Transmitters

To select a transmitter, use the **-TIME** and **+TIME** keys. Now use the **-VICTIMS** and **+VICTIMS** keys to turn the selected transmitter on or off.

The numbers of the activated transmitters are shown on the first line of the display.

Probe Hit Indication

If an active transmitter is probed properly, there is an acoustic signal. An asterisk (*) is shown next to the number of the transmitter.

5. Sleep Mode

Sleep Mode of the Transmitter

While in normal operating mode, the transmitters react immediately to commands coming in over the radio link. But this requires permanent operation of the receiver which increases current consumption. In order to save current, the transmitters are put into the sleep mode after 8 hours of no activity or upon a command from the control unit. To wake up all transmitters again takes about 35 seconds. During this wake up, the control unit displays a message, where xx is the number of seconds remaining before normal operation is assumed. Please wait wake up in xx sec.

Sleep Mode Control Unit

After 30 minutes of no activity, the control unit as well as the transmitters are put into sleep mode. The display is turned off. Press any key will bring the control unit back to normal operation within a few seconds. Also, the transmitters will be woken up.

6. System Ready for Use, Checking

Controlled wake-up (WAKE UP)

Controlled wake-up (WAKE UP) of all transmitters within radio range of the control unit

Hint: In normal mode, this is done automatically when the control unit is activated.

Automatic search (AUTO SEARCH)

Automatic search (AUTO SEARCH) of all transmitters that are ready and within radio range of the control unit. In normal operation (training and expert use), only the beacons transmitter that have been identified by AUTO SEARCH are used.

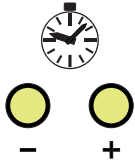
Victims: 0
Time: 10min 00 sec

1. Starting Point

Control unit in training mode: Victims = 0, Time = 10 Min.
All Transmitters are within radio range of the control unit

6. System Ready for Use, Checking

Please wait
Wake up in 35 sec



2. WAKE UP (waking up the system)

Press both the **-TIME** and the **+TIME** keys simultaneously for at least 5 seconds. All transmitters are woken up. This takes about 35 seconds.

Auto Search



3. AUTO SEARCH (automatic search for transmitters)

Press both the **-VICTIM** and **+VICTIM** key simultaneously for at least 5 seconds. The control unit searches for all transmitters that are ready to accept commands. The transmitters found are indicated and registered.

This takes a few minutes at most.

The system are now ready for use. All transmitters that have been found by the AUTO SEARCH procedure will be used for the training.

7. Technical Data

Transmitter

Beacon frequency	457 kHz +- 30 Hz
Transmit field strength	approx. 2 mA/m at a 1 m distance
Compatible with	ETS 300718
Radio control frequency	433.92 MHz (ISM band)
Power supply	4 type IEC LR20 alkaline (size D)
Battery life time	approx. 6 months (= 1 full winter season)
Case	plastic
Protection	IP 67 (waterproof)
Dimensions	target surface for probing: 400 x 600 mm
Temperature range	-25..... +50 deg C (operating)

Control Unit

Radio control frequency	433.92 MHz (ISM band)
Range	approx. 100 m
Power supply	6 type IEC LR20 alkaline (size D)
Battery lifetime	approx. 6 months (= 1 full winter season)
Case	metal case
Protection	IP 65 (splash water proof)
Dimensions	approx. 300 x 200 x 85 mm
Temperature range	-25.... +50 deg C (operating)

8. Warranty

Warranty

We provide a warranty for the ATC Avalanche Training System for a period of 2 years from the date of purchase as shown on the purchase receipt. In case of a warranty claim, all parts that can be shown to have material or manufacturing defects will be replaced free of charge. Damage that can be traced to incorrect handling or normal wear and tear is excluded. The warranty becomes null and void for devices which have been opened by the customer or any unauthorized third party as well as for devices which have been used with spare parts or accessories which are not original or are not recommended by the manufacturer.

EU Conformity

Girsberger Elektronik AG as a manufacturer declares that all parts of the ATC system are conformant with the requirements as set forth in the EC Directive 1999/5/EC (the R&TTE Directive) of March 9, 1999

All ATC system components are developed and manufactured in Switzerland.

The company Girsberger Elektronik AG is constantly striving to maintain the highest quality standards.

Technical specifications and appearances are subject to change without notice and accuracy.

We reserve all rights in connection with this document.

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

© Copyright 2013 Girsberger Elektronik AG.