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ALLPLEX track Personnel Transmitter

ATX-TRM-304T01 | ATX-TRM-433T01



1 FCC Information

This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

Notice!
For the full FCC information, refer to the *ALLPLEX track Personnel Transmitter Installation Manual* which can be downloaded from <http://www.boschsecurity.com>.

2 Installation and Setup

This section provides information for the system planners and configurators.

2.1 Removing the Cover



No.	Parts
1	Retaining screw
2	Lower Part

Instructions

1. Remove the belt clip, if used.
2. Remove the retaining screw on the back of the enclosure.
3. Use a flat-head screwdriver to pry the lower part of the front cover away from the enclosure.

Figure 2.1: Back of Transmitter

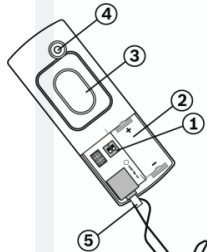
2.2 Battery

The transmitter uses a CR2, 3V lithium battery. The Central Console indicates when the battery is low and needs replacement. Refer to *Figure 3.1* for battery polarity. The battery's life depends on usage and enabled features.

Notice!
Batteries must not be disposed of in household waste. Please take used batteries to the local collection points. See www.boschsecurity.com/standards for further information.

3 Enabling and Disabling Features

The diagram on the left shows the different components of the transmitter.



No.	Parts
1	Dip switch for radio frequency (see Figure 3.2)
2	Battery compartment (3V)
3	Alarm button
4	Test button
5	Lanyard

Figure 3.1: Components of the transmitter

3.1 Selecting Transmitter Radio Frequency



Diagram	Radio Frequency	Switch Number 1	Switch Number 2
1	304 MHz (default)	OFF	OFF
2	303.825 MHz	OFF	ON
3	433.42 MHz	ON	OFF
<i>Used for Factory Reset</i>		ON	ON

Figure 3.2: Selecting Transmitter Radio Frequency

The radio frequency (RF) is set as 304 MHz by default. To change the RF to 303.825 MHz, set dip switch 1 to the OFF position and dip switch 2 to the ON position. To change the RF to 433.42 MHz, set dip switch 1 to the ON position and dip switch 2 to the OFF position. Once the transmitter restarts after inserting the battery, the transmitter will emit a number of beeping tones depending on the configured RF.

Radio Frequency	Number of Beeping Tones
303.825 MHz	1
304 MHz	2
433.42 MHz	3

Notice!
Remove the battery before setting the dip switches. Use a white marker to indicate the configured RF on the back of the transmitter after setting the dip switches. **Changes to the dip switches should be performed by administrators only.**

3.2 Factory Reset

Factory reset should be performed by administrators only. Set both dip switches 1 and 2 to the ON position. While pressing the Test and Alarm buttons, the transmitter resets after inserting the battery. If the reset is successful, there will be 3 slow consecutive beep tones every 1 second. After a successful reset, select the transmitter RF by setting the dip switches as described in *Section 3.1, Selecting Transmitter Radio Frequency*. If the reset is unsuccessful, there will be 2 slow consecutive beep tones every 1 second.

Refer to the following table which lists the values that are being set for the respective features following the factory reset.

Feature	Value
Transmitter Type	Security
Man-Down	Disabled
Supervision Tracking	Disabled
Lanyard	Disabled
Autotracking Interval	7 secs
Supervision Tracking Interval	90 secs

3.3 Activating the Configuration Mode

Configuration mode on the transmitter is activated by going into the test mode. Note that this mode is not available if the Man-Down or Lanyard snatch alarms are triggered and active. While holding down the Test button, press the Alarm button and release. The transmitter is in configuration mode once it emits 3 short and fast beep tones every 3 seconds.

3.3 Configuring the Transmitter

Transmitter type, Autotracking interval, Man-Down pre-beep to duration, Supervision Tracking, Man-Down and Lanyard Snatch features can be configured wirelessly on the transmitter via the coordinator/receiver using the Central Console software. To establish communication between the transmitter and the coordinator, you need to know their Radio IDs. Their unique Radio IDs can be found engraved on the devices. Using the Central Console software, enable or disable the features accordingly and send the configuration to the transmitter. Please refer to the *Security Escort Technical Reference Manual* for further details.

3.4 Exiting Configuration Mode

The transmitter will exit configuration mode automatically once the configuration has been transferred successfully to the transmitter. If no coordinator/receiver is present, user can exit the configuration mode immediately by pressing the Test button. The transmitter will enter operational mode once it exits the configuration mode.

4 Basic Transmitter Features

This section provides information of the various features of the transmitter.

4.1 Transmitting a Manual Alarm

Initiate an alarm by pressing and holding the Alarm button for 1 second. This emits a series of mixed tones for 2 seconds and sends an alarm signal to the Central Console. If alarm is activated within sight of a receiver, the red LED on the receiver lights up. After initiating a manual alarm, the Auto Tracking feature sends your latest location to the Central Console every 7 seconds (configurable). Reset the transmitter after a manual alarm by performing a test as described in *Section 6, Testing the Transmitter*.

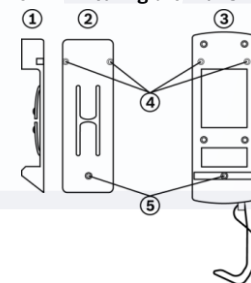
4.2 Man-Down Alarm

Whenever you are in a prone position (60° from upright) for more than 5 seconds (configurable), the transmitter emits a series of mixed tones for 2 seconds, and sends an alarm signal to the Central Console. There are no tones or alarm signal if transmitter is restored within 5 seconds (configurable). If alarm is activated within sight of a receiver, the red LED lights up. Reset the transmitter after a Man-Down Alarm by returning the transmitter to the upright position and performing a test as described in *Section 6, Testing the Transmitter*.

4.3 Lanyard Snatch Alarm

Initiate an alarm by pulling the lanyard off the transmitter. This emits a series of mixed tones for 2 seconds, followed by short beeps at 250 millisecond intervals. The transmitter sends an alarm signal to the Central Console. If activated within sight of a receiver, the red LED of the receiver lights up. The Auto Tracking feature sends the latest location to the Central Console every 7 seconds (configurable). To reset the transmitter after a Lanyard Snatch Alarm, reinsert the lanyard pin and perform a test as described in *Section 6, Testing the Transmitter*.

5 Wearing the Transmitter



No.	Parts
1	Side view of clip
2	Clip
3	Back of transmitter
4	Screw holes (mandatory)
5	Screw holes (optional)

This transmitter includes a clip you can wear over a pocket/belt, or firmly fixed to a belt. To wear the transmitter over a pocket/belt, secure the clip to the transmitter at the two top positions (no. 4) using the screws provided. To fix the transmitter firmly on a belt, secure the clip to the transmitter at the two top positions (no. 4), and at the bottom location (no. 5) using the screw that secures the battery door. The clip is designed to be worn on a security type utility belt. If worn on a thin belt, be aware that a loose fit might cause the transmitter to send a Man-Down Alarm (if enabled) when you move too much.

Figure 5.1: Belt Clip Attachment

6 Testing the Transmitter

Test your transmitter by standing within sight of a receiver or siren-strobe. While holding down the Test button, press the Alarm button until the transmitter emits 3 short beep tones. A test transmission is sent, lighting the green LED on a receiver or the strobe on an outdoor siren-strobe. There may be a delay of 2 to 3 seconds before the flashing light appears. If the receiver's LED or the strobe does not light to confirm a successful test transmission, retest the transmitter. If you still do not receive a confirmation, contact the security department.

7 Upgrading Transmitter Firmware

Transmitter firmware can be upgraded wirelessly via a dedicated coordinator using the Utility Tool of the Security Escort software. For more information on the usage of Utility Tool, please refer to the *Security Escort Installation and Setup Manual*.