



Wander Management Transmitters

User Guide



Compliance

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

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

Changes or modifications not expressly approved by the party responsible for compliance can void the user's authority to operate the equipment.



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WARNINGS AND CAUTIONS

It is important for your facility to implement and enforce the following WARNINGS and CAUTIONS in order to keep all equipment functioning properly. Disregarding the information and instructions in this document is considered abnormal use and may result in injury or system failure.

Warnings



ACCESSORIES (SUPPLIES)—To ensure resident safety and proper operation of equipment, use only parts and accessories manufactured or recommended by RF Technologies, Inc. Parts and accessories not manufactured or recommended by RF Technologies, Inc. may not meet the requirements of the applicable safety and performance standards.

Failure to use the components and supplies specified by RF Technologies, Inc. may result in equipment and/or system failure.

EXPLOSION HAZARD—These devices should not be used in the presence of flammable gas mixtures. It should also not be used in oxygen enriched atmospheres.

STATIC DISCHARGE—Do not touch the conductor portion of any conductor or port. Damage to the device may result.

SYSTEM WIRING—All permanent supply connections must be done in accordance with National Electric Code, NFPA 70.

INSTALLATION AND CONFIGURATION—It is the responsibility of the facility to follow the installation instructions carefully, as outlined in the applicable system guides, and to use the components and supplies specified by RF Technologies, Inc. for all installations.

Failure to use the components and supplies specified by RF Technologies, Inc. may result in equipment and/or system failure.

INSTRUCTIONS FOR SET UP AND USE—It is the responsibility of the facility to follow the instructions for set up and use carefully, as outlined in this manual, and to use the components and supplies specified by RF Technologies, Inc. for set up and use. Do not attempt to use extension cords or other equipment not supplied by RF Technologies, Inc.

Failure to use the components and supplies specified by RF Technologies, Inc. may result in equipment and/or system failure.

SYSTEM INSPECTION—It is the responsibility of the facility to establish and facilitate a regular inspection schedule for your system. RF Technologies, Inc. recommends yearly inspections of your system for safety and performance by a qualified RF Technologies, Inc. representative.

To arrange for an inspection by RF Technologies, Inc., call our Technical Support Department at (800)-669-9946 or (262) 790-1771.

Failure to provide regular inspection of these products may result in equipment and/or system failure.

SYSTEM MAINTENANCE AND TESTING—It is the responsibility of the facility to establish and facilitate a regular maintenance schedule for your system, as outlined in the applicable system guides. This includes regular inspection, testing, and cleaning. RF Technologies, Inc. recommends monthly maintenance and testing of your system. It is also recommended that your facility keep records of maintenance and test completions.

Failure to provide regular maintenance and testing of these products may result in equipment and/or system failure.

USER TRAINING—Only users who have received adequate training on the use of the system, as outlined in this manual, should use the system. It is the responsibility of the facility to ensure all users have been trained.

Failure to adequately train employees may cause system failure due to user error. In addition, incorrect use of the equipment may also result in system failure.



MR UNSAFE

All RF Technologies transmitters, pendants and banding material “PRODUCT” have been determined to be MR Unsafe as defined by ASTM F 2503-05. Use of “PRODUCT” in a Magnetic Resonance Imaging system will cause injury to residents and staff, MR system malfunction or “PRODUCT” malfunction. Do not bring “PRODUCT” into the MR system area and follow your facilities policies to classify and label “PRODUCT” as MR Unsafe.

Bio-Incompatibility Notice

Do not use Pendants with people that have sensitivities or allergies to device materials. The device materials include Acrylonitrile butadiene styrene (ABS), Silicon, Rubber, and Neoprene.

Cautions



DISPOSAL—At the end of their service life the products described in this manual, as well as accessories (i.e. lithium batteries, banding material, disposable pads, etc.), must be disposed of in compliance with all applicable federal, state and local guidelines regulating the disposal of products containing potential environmental contaminants. Dispose of the packaging material by observing the applicable waste control regulations

RESIDENT GENERATED ALARMS—Do not rely exclusively on resident generated alarms for resident care and safety. The alarm function of equipment in the possession of residents must be verified periodically and regular resident surveillance is recommended.

RESIDENT MONITORING—The most reliable method of resident monitoring combines close personal surveillance with correct operation of monitoring equipment. It is the responsibility of the facility to periodically check on residents in possession of RF Technologies, Inc.'s equipment (i.e. Pendants, Pull Cords, Control Units) to mitigate risk of inappropriate use of equipment or strangulation and stumbling hazards from cables and cords.

PRODUCT WARRANTIES—Failure to follow the Warnings and Cautions in this guide voids any and all Product Warranties.

WORN OR DAMAGED PARTS—If the devices or cables are worn or damaged, you must have the product serviced. For more information, see the section entitled “Service and Return.”

PREFACE

Overview

The Wander Management Solution monitors doors, elevators, hallways, and stairwells to assist staff in monitoring residents in a facility. The transmitter is placed on the wrist or ankle of the resident. If a transmitter is detected in an Exit Alarm Zone and the door is open, an alarm sounds at the exit. Depending upon which equipment you have installed, the Wander Management Solution can automatically lock doors and deactivate elevators.

In addition, if the system in your facility includes computers, an alarm also sounds at a Central Server and its network of Client computers. The Central Server and Client computers are also capable of identify which resident sounded the alarm and the exit where the alarm occurred.



WARNING: The Wander Management Solution is designed and intended to work in conjunction with a facility's overall resident security program, including reasonable operating policies and procedures. The Wander Management Solution, by itself, cannot prevent the elopement of residents.

Intended Audience

The Wander Management Transmitters User Guide is intended for caregivers who use the Wander Management transmitters. It includes detailed information about banding, care and cleaning, testing the transmitters, alarms and transmitter specifications.

Contact Information

For more information about RF Technologies, Inc. products, go to www.rft.com.

Technical Support

For technical support, contact the Technical Support Team at:

(800) 669-9946, option 5 or (262) 790-1771
tech@rft.com

Customer Care

For questions on part replacement or for ordering new parts, contact the Customer Care Team at:

(800) 669-9946, option 2
customercare@rft.com

Sales

For questions regarding system add-ons, contact your Sales Manager.

Product Warranty

Product Warranty information can be found with your original system proposal and invoice.

GENERAL INFORMATION

Introduction

This chapter provides general information about the transmitters. It includes information on:

- Transmitter types
- Warranty dates
- Banding the transmitters
- Testing and care

Transmitters

The transmitters are lightweight and compact. They can be worn in the shower but complete submersion should be avoided.



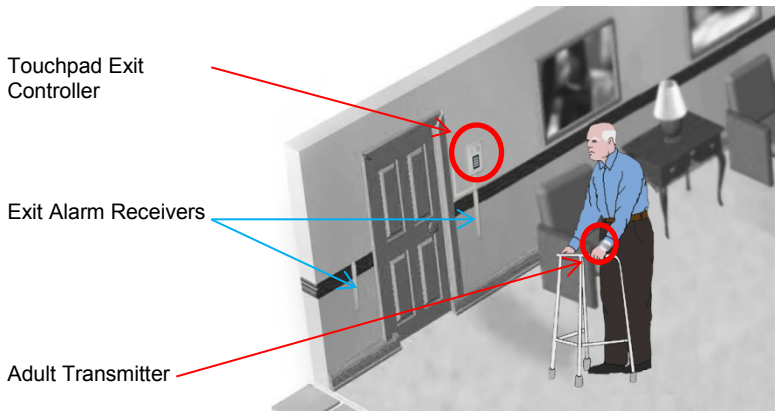
SUBMERSION—Prolonged submersion may result in equipment and/or system failure and voids any and all Product Warranties.

How do the transmitters work?

Both the Adult and CodeWatch transmitters send a signal that is received by the Exit Alarm Receivers (low frequency (LF) antennas placed on or near a door frame or in an Exit Alarm Zone) when the transmitter is within a monitored zone.

The receiver then sends a signal to the Touchpad Exit Controller which triggers the alarm process if the door is opened.

Once the situation is addressed, authorized staff can reset the system using the Touchpad Exit Controller keypad.



Transmitter Types

There are two types of wander management transmitters:

- CodeWatch
- Adult Transmitter

CodeWatch



A CodeWatch is smaller than a transmitter and is placed on the wrist of a resident.

Adult



The Adult Transmitter is a small device placed on the ankle or wrist of a resident.

Warranty Expiration Date

Each transmitter is stamped with a warranty expiration date. This date indicates the date that RF Technologies' warranty on that transmitter expires. If the warranty period has expired, discard the transmitter immediately.



WARNING: Using a transmitter beyond the printed expiration date can result in system failure and/or elopement.

CodeWatch Example



The CodeWatch has a 1 year life expectancy.

Adult Transmitter Example



The Adult transmitters have a life expectancy of:

- 1.5 or 2 year (non-ID)
- 1 or 3 year (ID)

Banding

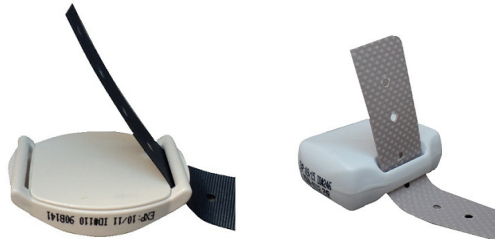
Use the following steps to band an Adult or CodeWatch transmitter.



CAUTION: You must test all transmitters prior to use to verify proper operation. This includes every time that the band is replaced. Failure to test the transmitters before use can result in system failure and/or an elopement. In addition, failure to test transmitters voids the RF Technologies Product Warranty.

To band a transmitter:

1. Insert the band through the slot on one side of the transmitter, from top to bottom.



2. Pull the band along the bottom of the transmitter and insert it through the slot on the other side of the transmitter, from bottom to top.



3. Holding the transmitter in place, wrap the band around the wrist or ankle of the resident.



If a resident is prone to cutting off the transmitter, double up on the banding to make cutting more difficult.

CodeWatch transmitters should be placed on the wrist of the resident's dominant hand (if right-handed, place on the right wrist).



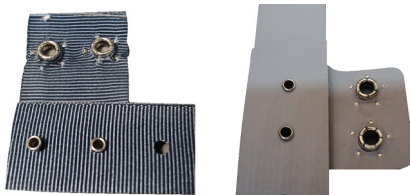
NOTE: To monitor a resident in a wheelchair, attach the transmitter to the seat or back of the chair as the metal on the chair can interfere with the transmitter's signal.

4. Adjust the band so that the transmitter is in a comfortable position on the resident's wrist or ankle; the band must be tight enough to help prevent the transmitter from slipping off, and loose enough to avoid discomfort or possible edema.



WARNING: When the CodeWatch is placed on a resident's ankle, be sure to adjust the antennas at each door to a 4 to 5 ft. range to the ankle. Failure to do so may allow a resident to elope because they will be closer to the door when the door detects their transmitter.

5. Align the holes in the band with the snaps on the wide collar of the band.



6. Fold the flap of the wide collar of the band over and squeeze the snaps together.
7. Use safety scissors to cut off the excess band material.



WARNING: Scissors are sharp and can cause injury or death. Use care when cutting off the excess band material.

Reusable Locking



The Adult transmitter can be used with a reusable locking band. The material used to make these bands is thicker; therefore making it stronger and more difficult to cut through or stretch. The band comes with a small key that is used to remove the band. This band is intended for Adult Day Care use only where residents are supervised and checked on regular basis throughout the day.



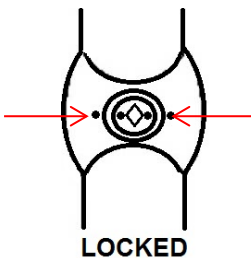
WARNING: Due to the locking buckle design which presses a cam against the band material, if you pull hard on the band material, it may slip. Therefore, it is important to check the resident bands on a regular basis throughout the day.

To band an Adult transmitter with a reusable locking band:

1. Insert the reusable band through the slot on one side of the Transmitter, from bottom to top.
2. Verify that the lock is facing outward.
3. Pull the band over the top of the transmitter and insert it through the slot on the other side of the transmitter, from top to bottom.



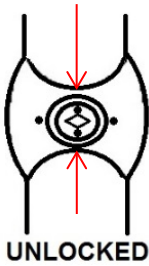
4. Holding the transmitter in place, secure the band around the wrist or the ankle of the resident.
5. Insert the end of the band through the slot on the lock buckle.
6. Adjust the band so that the transmitter is in a comfortable position on the resident's wrist or ankle; the band should be tight enough to prevent the transmitter from slipping off, and loose enough to prevent discomfort or possible edema.
7. Secure the band, by inserting the key into the lock and turning 1/4 turn to the left until the small, black dots on the cam are lined up with the black dots on the outside of the lock.
8. Verify that the band is secure and that the lock was latched correctly



9. Place key in safe place away from residents in order to avoid a resident using it to remove the transmitter or accidentally swallowing the key.



WARNING: The Reusable Locking Bands are intended for use by a single resident and should not be shared. You should follow your facility's infection control procedures, as applicable.



To remove an Adult transmitter with a locking band:

1. Insert the key into the lock and turn 1/4 turn to the right until the lock loosens.
2. Remove the Adult transmitter and reusable locking band.

TESTING AND CARE

Transmitter Testing

Do not use the transmitter tester on a transmitter with an expiration date that has expired. Results may not be accurate.

All steps are mandatory.



CAUTION: You must test all transmitters prior to use to verify proper operation. This includes every time that the band is replaced. Failure to test the transmitters before use can result in system failure and/or an elopement. In addition, failure to test transmitters voids the RF Technologies Product Warranty.

Visual Inspection

1. Verify that the warranty expiration date that is stamped on the transmitter is not expired.
2. Visually inspect the transmitter for damage or loose parts.

Operation



Test the operation of the transmitter using the Transmitter Tester. The transmitter tester will detect whether or not a transmitter is emitting a signal, but cannot indicate the strength of the signal.

1. Place the transmitter tester directly on the transmitter.
2. Press and hold the button on the left side of the transmitter tester.
3. The device beeps once when you initially press the button.

4. While holding the button in, the indicator light flashes and a tone sounds once per second.
5. Wait for at least 3 flashes of the indicator light and 3 tones from the transmitter tester to verify that the transmitter is functioning correctly.
6. If the transmitter fails this test, check the battery in the tester (the transmitter tester requires a 9V battery).
7. Retest the transmitter. If it fails a second time, DO NOT USE THE TRANSMITTER and contact RF Technologies Technical Support .

Signal Strength

1. Physically enter an Exit Zone with the transmitter and walk through the door.
2. An alarm must occur when the transmitter is within 4-feet of the monitored door. If applicable, the door should also lock.
3. If an alarm does not occur, DO NOT USE THE TRANSMITTER and contact RF Technologies Technical Support.

Weekly Testing

The following testing is required for all transmitters in use on residents.

1. Test the operation of transmitters using the transmitter tester.
NOTE: Never take a resident to a door to test their transmitter.
2. Visually inspect transmitters for damage or loose parts.
3. Verify that the warranty expiration date stamped on the transmitter has not

expired. If the warranty period has expired, discard and replace the transmitter immediately.

4. Your facility must keep records of test and transmitter inspection.

Transmitter Cleaning and Care

This section provides detailed information about cleaning and caring for a transmitter.

For an up-to-date list of approved cleaning solutions, visit:

[www.rft.com/Resources/Manuals & Specs/Transmitters/Transmitter Approved Cleaning Solutions](http://www.rft.com/Resources/Manuals%20&%20Specs/Transmitters/Transmitter%20Approved%20Cleaning%20Solutions)



CAUTION: Use of non-approved cleaners on transmitters can cause permanent damage to the transmitter and will void any and all warranties.

To clean a transmitter after use:

1. Remove the banding material from the transmitter and dispose of it.
2. Disinfect the transmitter by wiping it with an approved cleaner.



CAUTION: Using an approved cleaner does not confirm the suitability of the cleaner to meet your infection control standard; it only indicates that the transmitter will not be harmed by the cleaner.

The transmitters may be sprayed or rinsed with water or the approved cleaners during cleaning, but must not be soaked. Soaking transmitters may result in equipment and/or system failure.

3. Allow the cleaner to remain on the transmitter for the amount of time specified by the manufacturer. When using surface disinfectants and decontaminant cleaners, always follow the manufacturer's instructions.
4. Wipe the transmitter with a clean cloth or towel, and then allow the transmitter to air-dry. The transmitter can also be rinsed with water, if required in the manufacturer's instructions.
5. Place the clean transmitter in a storage container for future use.

Reusable Locking Band Cleaning

If necessary, you can machine wash the band in cold water using a small washing bag and lay flat to air dry.

If the band is severely soiled, it must be discarded and replaced. In addition, if the material of the band is frayed, it must be replaced.

SPECIFICATIONS

CodeWatch



Size	2.0 x 1.5 x 0.5 inches
Weight	1.0 ounces
Color	Off-white with printed, color centers: flag design, flower design or classic gray
Operating Temperature	32–104° Fahrenheit (0–40° Celsius)
Composition	Thermoplastic Co-polyester
Battery Life	1 year, Lithium Ion
Water Resistance	Rated to IP-67
Frequency	Depending on model: 66 KHz or 262 KHz
Regulations	FCC, Part 15b Conforms to UL Standard 294

Part Number	Description
9000-0144	CodeWatch Transmitter (CWTX), Flag Design, 70/100 1-year, 66 kHz
9000-0145	CodeWatch Transmitter (CWTX), Flag Design, 70/100 1- year, 262 kHz
9000-0146	CodeWatch Transmitter (CWTX), Flag Design, 80/100 1- year, 66 kHz, ID
9000-0147	CodeWatch Transmitter (CWTX), Flag Design, 80/100 1- year, 262 kHz, ID
9000-0148	CodeWatch Transmitter (CWTX), Flower Design, 70/100 1- year, 66 kHz
9000-0149	CodeWatch Transmitter (CWTX), Flower Design, 70/100 1- year, 262 kHz
9000-0150	CodeWatch Transmitter (CWTX), Flower Design, 80/100 1- year, 66 kHz, ID
9000-0151	CodeWatch Transmitter (CWTX), Flower Design, 80/100 1- year, 262 kHz, ID
9000-0138	CodeWatch Transmitter (CWTX) 70/100 1- year, 66 kHz
9000-0139	CodeWatch Transmitter (CWTX) 70/100 1- year, 262 kHz
9000-0140	CodeWatch Transmitter (CWTX) 80/100 1- year, 66 kHz, ID
9000-0141	CodeWatch Transmitter (CWTX) 80/100 1- year, 262 kHz, ID

Adult Transmitter



Size	1.6 x 2.0 x 0.70 inches
Weight	1.28 ounces
Color	Off-white
Operating Temperature	32–104° Fahrenheit (0–40° Celsius)
Composition	Polycarbonate
Battery Life	Depending upon model: 1 year, 1.5 years, 2 years, or 3 years
Water Resistance	Rated to IP-67
Frequency	Depending on model: 66 KHz or 262 KHz
Regulations	FCC, Part 15b Conforms to UL Standard 294

Part Number	Description
9000-0436	TX 9120/80 - 1 year 66 KHz ID
9000-0437	TX 9120/80 - 1 year 262 KHz ID
9000-0432	TX 9120/70 - 1.5 year 66 KHz Non ID
9000-0434	TX 9120/70 - 1.5 year 262 KHz Non ID
9000-0414	TX 9120/80 - 2 year 66 KHz ID
9000-0424	TX 9120/80 - 2 year 262 KHz ID
9000-0413	TX 9120/70 - 3 year 66 KHz Non ID
9000-0423	TX 9120/70 - 3 year 262 KHz Non ID

Banding



	Nylon	PVC	Locking Band
Dimensions	16" x 0.8" (l x w)		12" ankle length 9.5" wrist length
Features	One-time use, tamper-resistant, latex-free		With Locking key, latex free
Material	Nylon webbing	Flexible PVC plastic	Nylon webbing
Color	Blue	Gray, Blue, Green	Black
Fitting	0.75-inch adjust setting holes; 2 sets of nickel-coated brass snaps		ABS plastic latch

Part Number	Description
3000-0213K	Blue Bands, Nylon (10 Pack)
3000-0217K	Gray Bands, PVC (10 Pack)
3000-0241K	Blue Bands, PVC (10 Pack)
3000-0238K	Green Bands, PVC (10 Pack)
3000-0252K	Kit, 10 reusable Ankle Locking Bands, 2 Keys, 1 User Guide
3000-0251K	Kit, Reusable Locking Band 12" Ankle Length with Key
3000-0250	Reusable Locking Band 12" Ankle Length

Transmitter Tester



Size	3.8 x 2.4 x 1.5 inches
Weight	3 ounces
Battery	9V battery

Part Number	Description
9000-1000	Transmitter Tester

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REVISION HISTORY

Revision	Change
A	Release
B	Changed “Wandering Management” to “Wander Management”
C	Added list of approved cleaning products
D	Combined 0510-1033 into this document Updated format, updated warranty expiration date section, and updated specifications section Fixed minor document bugs
E	Updated approved cleaners section
F	Updated format and logos Removed Alerts section (information contained in the software reference guides)
G	Added Oxivir TB to Approved Cleaner List
H	Updated copyright dates, contact information, and graphics Added note about banding the CodeWatch on the dominant wrist Removed obsolete part numbers (9000-0433, 9000-0435, 3000-0257K, 3000-0256K, 3000-0255) from the specifications section
I	Updated graphics to print in color Updated specification section to include the transmitter tester
J	Removed Approved Cleaners section and added reference to website link for most up-to-date list

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