

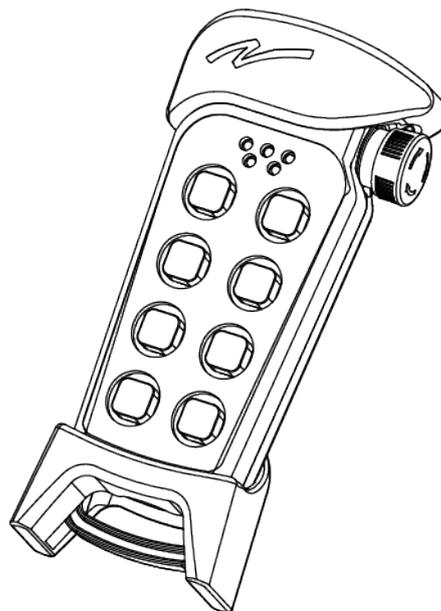
END USER INSTRUCTIONS

Transmitter: T19-02

safe

smart

strong



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CHAPTER 1: INTRODUCTION

Thank you for using a Tele Radio AB product



READ ALL INSTRUCTIONS AND WARNINGS CAREFULLY BEFORE OPERATING THE PRODUCTS.

These End user instructions have been published by Tele Radio AB and are not subject to any guarantees. The End user instructions may be withdrawn or revised by Tele Radio AB at any time and without further notice. Corrections and updates will be added to the latest version of the manual. Always download the End user instructions from our website, www.tele-radio.com, for the latest available version. Keep the safety instructions for future reference.

IMPORTANT! These instructions are intended for end users. The instructions can be printed and handed to end user.

Tele Radio AB remote controls are often built into wider applications. This documentation is not intended to replace the determination of suitability or reliability of the product for specific user applications and should not be used for this purpose. It is the responsibility of any such users or integrators to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use. Tele Radio AB shall not be responsible or liable for misuse of the information contained herein.

Always refer to the applicable local regulations for installation and safety requirements relating to cranes, hoists, material handling applications, lifting equipment, industrial machinery, and/or mobile hydraulic applications using Tele Radio AB products, e.g.:

- applicable local and industrial standards and requirements,
- applicable occupational health and safety regulations,
- applicable safety rules and procedures for the factory where the equipment is being used,
- user and safety manuals or instructions of the manufacturer of the equipment where Tele Radio AB remote control systems are installed.

Tele Radio AB End user instructions do not include or address the specific instructions and safety warnings of the end product manufacturer.

For battery precautions, see "7.1 Battery precautions".

Tele Radio AB products are covered by a warranty against material, construction, or manufacturing faults. See "Chapter 9: Warranty, service, repairs, and maintenance".

1.1 About this document

Before installing or operating the product, read the corresponding documentation carefully.

Tele Radio AB's product range is composed of transmitters, receivers, and accessories intended for use together as a system.

These End user instructions cover general safety issues, main technical specifications, standard operating instructions and battery information. Images shown in this document are for illustrative purposes only.

Please report any error or omission in this document, as well as any improvement or amendment suggestion to td@tele-radio.com.

1.1.1 COPYRIGHT

Information in this document is subject to change without notice. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, photographic, mechanical (including photocopying), recording or otherwise for any purpose other than the purchaser's personal use without the written permission of Tele Radio AB.

1.1.2 TERM AND SYMBOL DEFINITIONS

The capitalized terms and symbol used herein shall have the following meaning:

- **WARNING:** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION:** indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.
- **IMPORTANT:** is used for information that requires special consideration.
- **NOTE:** is used to address practices not related to physical injury.



This symbol is used to call attention to safety messages that would be assigned the signal words "WARNING" or "CAUTION".

1.2 About T19 transmitters

Tele Radio AB's remote control systems are suitable for a wide variety of applications for e.g. stationary or mobile equipments, hydraulic machines, construction, forestry or agriculture equipments and more. Tele Radio AB's transmitters and receivers are highly customizable and can be configured to suit the most wide-ranging application requirements & usage habits.

T19 transmitters have simplex communication and work in either discontinuous or continuous mode.

CHAPTER 2: SAFETY

2.1 Warnings & restrictions



Carefully read through the following safety instructions before proceeding with the installation, configuration, operation, or maintenance of the product. Failure to follow these warnings could result in death or serious injury.

This product must not be operated without having read and understood the End user instructions and having received the appropriate training. The purchaser of this product has been instructed how to handle the system safely. The following information is intended for use as a complement to applicable local regulations and standards.

IMPORTANT! Tele Radio AB remote controls are often built into wider applications. These systems should be equipped with:

- a wired emergency stop where necessary
- a brake
- an audible or visual warning signal

2.1.1 OPERATION



This radio system must not be used in areas where there is a risk of explosion.



Only qualified personnel should be permitted to access the transmitter and operate the equipment.

The user should:



- **Always follow operating and maintenance instructions as well as all applicable safety procedures and requirements.**
- **Do not open the receiver encapsulation unless you are qualified.**
- **You must satisfy the age requirements in your country for operating the equipment.**
- **It is strictly prohibited to operate the equipment under the influence of drugs, alcohol and/or medications.**
- **Always test the transmitter stop button before operating it. Press the stop button then twist and pull it out. This test should be done on each shift, without a load.**
- **Never use a transmitter if the stop button is mechanically damaged. Contact your supervisor or representative for service immediately.**
- **Never leave the transmitter unattended.**
- **Always switch the transmitter off when not in use. Store in a safe place.**
- **Keep a clear view of the work area at all times.**

2.1.2 MAINTENANCE



Before maintenance intervention on any remote controlled equipments:

- **always remove all electrical power from the equipment.**
 - **always follow lockout procedures.**
-
- Keep the safety information for future reference. Always download the End user instructions from our website, www.tele-radio.com, for the latest available version.
 - If error messages are shown, it is very important to find out what caused them. Contact your representative for help.
 - The functionality of the stop button should be tested at least after every 200 hours' use.
 - If the stop button is mechanically damaged, do not use the transmitter. Contact your supervisor or representative for service immediately.
 - Keep the product in a clean, dry place.
 - Do not try to open the encapsulation.

-
- Always contact your representative for service and maintenance work on the product.
 - Keep contacts and antennas clean.
 - Wipe off dust using a clean, slightly damp cloth.
 - Never use cleaning solutions.
 - Check the encapsulation, foils and cable for damages every day. If you use the product although the encapsulation or foil is damaged, moisture can cause serious damage to the electronics.

2.2 Safety features

2.2.1 STOP BUTTON

IMPORTANT! The Stop button should always be tested before operating the transmitter. This test should be done on each shift, without a load.

To test the stop button:

1. Press the **Stop** button.
2. Twist and release the **Stop** button.

CHAPTER 3: TECHNICAL DATA

3.1 Transmitter specifications

Number of buttons	8 x 2-step buttons
Power supply	3 x 1.5 V AAA / LR03 in battery pack D4-3
I/O switch	No
Radio communication	Simplex
Radio frequency band	2405 – 2480 MHz
Number of channels	16 (channel 11–26)
Radio frequency output power	EIRP ¹ < 10 dBm (10 mW)
Operating time (continuous usage)	Approximately 100 h with alkaline (depending on settings)
IP code	IP65
Operating temperature	-20...+55 °C / -4...+130 °F
Charging temperature	+10...+35 °C (+50...+95 °F)
Safety levels	EN ISO 13849-1, PLd CAT3 (Stop function)
Dimensions	85 x 193 x 43 mm / 3.4 x 7.7 x 1.7 in
Weight	300 g / 0.7 lbs

¹Equivalent isotropic radiated power

3.2 Radio frequency band

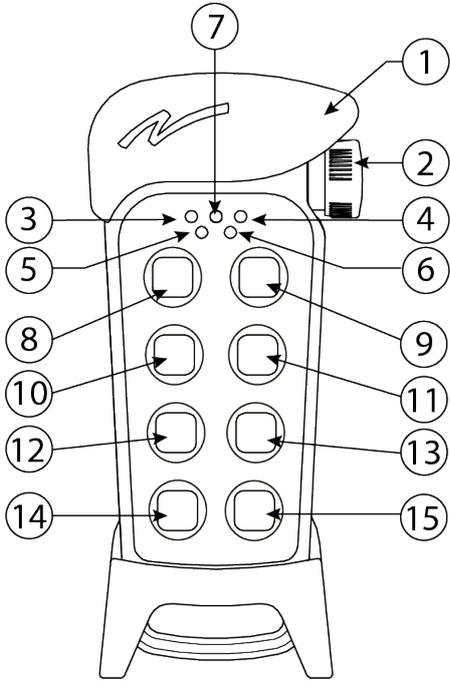
For radio systems operating on frequency band 2.4 GHz, the frequency band is divided into 16 channels (11 to 26). Once the channel has been selected on the transmitter, the receiver will automatically detect and switch to the same channel.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
11	2405	19	2445
12	2410	20	2450
13	2415	21	2455
14	2420	22	2460
15	2425	23	2465
16	2430	24	2470
17	2435	25	2475
18	2440	26	2480

CHAPTER 4: PRODUCT GENERAL DESCRIPTION

The pictures shown in this chapter are for illustrative purposes only.

4.1 Transmitter front



- | | | |
|-----------------------|-------------------------|--|
| 1. Rubber cover | 6. LED 4 (red) | 11. Button 4 |
| 2. Stop button | 7. Top LED (red, green) | 12. Button 5 |
| 3. LED 1 (red) | 8. Button 1 | 13. Button 6 |
| 4. LED 2 (red) | 9. Button 2 | 14. Button 7 – Left Start button |
| 5. LED 3 (red) | 10. Button 3 | 15. Button 8 – Right Start button |

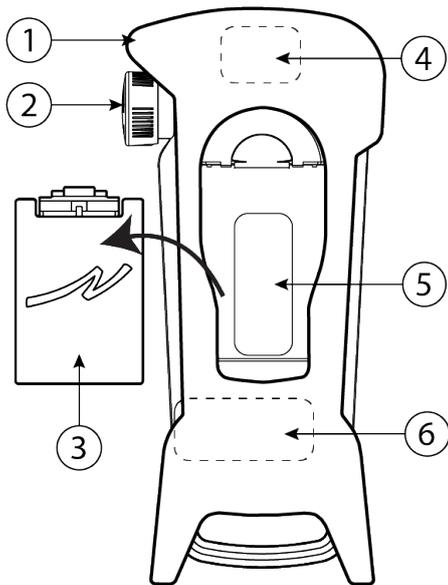
4.1.1 SHIFT BUTTON

In some cases, the **right Start** button¹ is used as a shift button to access some menus and/or channels.

To activate the shift function, press the shift button and keep it pressed. Press the button corresponding to the desired channel/ menu. Release it, then release the shift button.

¹T19-2: button 8.

4.2 Transmitter back



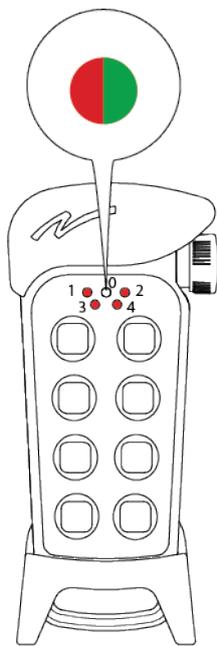
- | | |
|-------------------------|---|
| 1. Rubber cover | 4. Replace ID label (under the rubber cover) |
| 2. Stop button | 5. Product label (inside the battery compartment) |
| 3. Battery/Battery pack | 6. FCC/IC label (under the rubber cover) |

4.3 Top LED status indication

The top LED is a multicolored LED that lights or flashes green when the battery capacity is good and red when the battery capacity is poor. When the top LED lights/flashes red, battery should be charged or changed at the next convenient opportunity (see "7.2.1 Change the batteries in battery pack D4-3 ").

CHAPTER 5: ERROR INDICATIONS AND CODE MESSAGES

Each error is identified by a code indicated by a LED combination including the top LED (LED 0) and LEDs 1–4.



●: LED is lit (red). ○: LED is off

⊙: LED is blinking green/red.

NOTE: The following error indications apply for models with **SW version 18 or higher**.

LED0 green/red	LED1 red	LED2 red	LED3 red	LED4 red	Indicates
⊙	●	○	○	○	Production data error
⊙	○	●	○	○	Radio initialization has failed
⊙	●	●	○	○	Stop button test is required
⊙	○	○	●	○	CPU2 will power off the radio module
⊙	●	○	○	●	Stop button memory error
⊙	○	●	●	○	Flow control error

CHAPTER 6: OPERATION

6.1 General information

6.1.1 RECEIVERS WITH LOGIN/LOGOUT¹ FUNCTION ACTIVATED

To control a receiver, the transmitter must be registered and logged in to the receiver. If another transmitter is already logged in to the receiver, it must be logged out before a different transmitter can be logged in.

If no transmitter is logged in to the receiver, the first registered transmitter to be started will automatically log in to the receiver. Once a transmitter has been logged in, it will remain logged in until it is manually logged out.

More than one transmitter can be registered in the receiver, but only one transmitter can be logged in at a time.

NOTE: For the logout function to work, BOTH the receiver and the transmitter must have the logout function activated and be set to continuous radio mode.

6.1.2 RECEIVERS WITHOUT LOGIN/LOGOUT FUNCTION OR WITH LOGIN/LOGOUT FUNCTION INACTIVATED

To control a receiver, the transmitter must be registered in the receiver.

If no transmitter is controlling the receiver, the first registered transmitter to be started will automatically take control of the receiver. Switching the transmitter off will free the receiver and allow any other registered transmitter that is started to control the receiver.

More than one transmitter can be registered in the receiver, but only one transmitter can control the receiver at a time.

6.1.3 MULTIPLE TRANSMITTERS REGISTERED IN A SAME RECEIVER

If more than one transmitter is registered in the same receiver, it is recommended to select the same frequency channel on all transmitters.

¹For more information about login/logout, see the transmitter installation instruction

6.2 Radio mode

NOTE: To establish a radio link between the transmitter and the receiver, both units must be set to the same radio mode.

This transmitter is set to **continuous** radio mode by default. The transmitter starts to transmit continuously as soon as it is started. The radio transmission ends when the stop button is pressed. When the system is in continuous radio mode, buttons 7 and 8 are used as start buttons.

NOTE: Some functions are only available when the products are transmitting continuously. Those functions are marked: "Only for continuous radio mode" in the manual.

6.3 Functionality test

NOTE: This list is intended for use as a support for the manufacturer of the equipment where Tele Radio AB remote control systems are installed.

Before operating the radio system, follow the procedure below.

IMPORTANT! This test should be performed at each shift, without a load, and should include but not be limited to the following steps

- Make sure that the controlled object can not cause any harm in the event of unexpected movement.
- Always follow local safety rules and start the equipment according to the corresponding instructions.
- Make sure that the transmitter can control the receiver by testing all functions.
- Make sure that the functions respond as expected.
- Make sure that all movements are as planned.
- Make sure that the stop button works correctly.
- Make sure that the stop function works correctly.
- Make sure the system stops when the batteries are removed from the transmitter.

6.4 Start a session

To be able to control a receiver with the transmitter, the transmitter must be registered in the receiver.

When starting the transmitter, it will automatically log in to the receiver(s) it has been registered in, provided that no other transmitter is already logged in to the receiver(s). If the transmitter was not logged out after the last session, it will remain logged in when starting a new session.



When not in use, transmitters must be switched off and stored in a secure storage space.



Do not use the system if the stop button is damaged or if it does not stop the equipment. Doing so could result in serious injury or death.

1. Make sure that the **Stop** button is pressed.
2. Twist and release the **Stop** button.
The top LED lights. LEDs 3 and 4 flash (red).
3. Press buttons 7 and 8 simultaneously for at least 1 second.
LEDs 3 and 4 light (red).
4. Release buttons 7 and 8.
LEDs 3 and 4 go out. The top LED flashes.
5. Proceed with the functional test (see "6.3 Functionality test").

6.5 Log the transmitter out from a receiver

IMPORTANT! For the logout function to work, BOTH the receiver and the transmitter must have the logout function activated and be set to continuous radio mode.

A transmitter already logged in to the receiver has to be logged out before any other transmitter can be logged in. If a transmitter has been lost or seriously damaged, use the replace procedure on the transmitter.

NOTE: Logout can only be performed when the transmitter is on and a radio link with one or more receivers has been established. The receiver must be powered-up for the logout procedure to be successful.

NOTE: The logout procedure will log the transmitter out from all receivers that are part of the radio session.

NOTE: The logout function cannot be activated/deactivated from the transmitter. Contact your representative for assistance.

For this transmitter, the logout function is activated by default.¹

6.5.1 QUICK LOGOUT

1. Make sure that the transmitter is started. If not, twist and release the **Stop** button.
2. Press and hold button 7.
3. Press the **Stop** button.
The top LED lights (red).
4. Release button 7.
The transmitter takes approximately 3 seconds to logout. The transmitter turns off.

¹Check the receiver installation instructions for more details about the logout function in the receiver.

6.6 Switch the transmitter off

NOTE: When the transmitter is switched off, it remains logged in to the receiver(s). To logout, see the section "6.5 Log the transmitter out from a receiver".

1. Press the **Stop** button.
The transmitter sends a Stop command to the receiver. The transmitter turns off.

CHAPTER 7: BATTERY

7.1 Battery precautions

Carefully read the following safety instructions and warnings before using, charging or disposing of the batteries.



Batteries contain flammable substances such as lithium or other organic solvents, which may result in overheating, rupture or combustion. Failure to read and follow the below instructions may result in fire, personal injury and damage to property if charged or used improperly.

7.1.1 HANDLING AND STORAGE



- Risk of explosion if battery is replaced with a battery of an incorrect type.
- Do not short-circuit, disassemble, deform or heat batteries.
- Never attempt to charge a visibly damaged or frozen battery.
- Do not use or charge the battery if it appears to be leaking, deformed or damaged in any way.
- Do not solder directly onto batteries.
- Do not leave the battery in the charger once it is fully charged.
- Store in a cool location. Keep batteries away from direct sunlight, high temperature, and high humidity.
- Immediately discontinue use of the battery if, while using, charging, or storing the battery, the battery emits an unusual smell, feels hot, changes color, changes shape, or appears abnormal in any other way.
- Keep batteries out of reach of small children. Should a child swallow a battery, consult a physician immediately.

7.1.2 DISPOSAL

When discarding batteries, insulate the + and - terminals of batteries with insulating/ masking tape.



- **Do not place multiple batteries in the same plastic bag.**
- **Do not incinerate or dispose of batteries in fire.**
- **Do not place used batteries in the household waste. Dispose of used batteries in accordance with the applicable regulations and legal requirements.**
- **Batteries that have been disposed of incorrectly may short circuit, causing them to become hot, burst or ignite.**

7.2 Battery information

NOTE: Only batteries approved by Tele Radio AB should be used in T19 transmitters.

NOTE: When approximately 10 % of the battery capacity remains, the Top LED will light red.

Two different battery types – D4-2 and D4-3 – are available for use in the transmitter. By default, the transmitter is supplied with a D4-3 battery pack.

	D4-2	D4-3
Type of battery	Replaceable, rechargeable lithium-ion battery	Replaceable battery pack for 3 x 1.5 V AAA / LR03 batteries ¹
Article number	M245060	–
Operating time	Approximately 150 h (depending on settings)	Approximately 100 h with alkaline (depending on settings)
Charge	Tele Radio charger unit ² , 5 V DC, 10 % (1A)	<div style="border: 2px solid black; padding: 5px; text-align: center;">  <p>Do not charge in the Tele Radio AB charger unit.</p> </div> <p>Replace the batteries inside the battery pack.</p>
Article number	M769755 + M769780 or M769755 + M769746	
Charging time	Approximately 4 hours with an empty battery	–
Charging temperature	+10...+35 °C (+50...+95 °F)*	–
Long term storage temperature	-5...+35 °C (+23...+95 °F)	–

NOTE: M769755 must be purchased together with an adapter, either AC (M769780) or DC (M769746).

¹Not included.

²Must be purchased separately.

NOTE: Electronics and batteries must be physically separated before disposal. Make sure that electronics or batteries are not disposed of in household waste.

7.2.1 CHANGE THE BATTERIES IN BATTERY PACK D4-3



Do not charge battery pack D4-3 in the Tele Radio AB charger unit or in any other charger.

Attempts to recharge may cause rupture or hazardous liquids to leak, which will corrode the equipment.

NOTE: Electronics and batteries must be physically separated before disposal.

1. Remove the battery pack from the back of the transmitter.
2. Open the battery pack.
3. Replace the 3 x 1.5 V AAA / LR03 batteries. Use alkaline batteries for optimal performance.
4. Put the battery pack back in the transmitter.

7.2.2 CHARGE THE D4-2 BATTERY IN THE TABLE CHARGER

IMPORTANT! Only for D4-2, replaceable, rechargeable lithium-ion battery.

1. Remove the battery from its compartment and place it in the Tele Radio AB battery charger.
2. The charger's LED lights red while the battery is charging.
3. The charger's LED turns green when the battery is fully charged.
4. Put the battery back into the transmitter's battery compartment.

CHAPTER 8: FOILS

Foils are used to customized transmitters depending on the application. Tele Radio AB foils are made of durable, soft, flexible GO-PU/SM polyurethane film with a semi-matt surface on the front side.

Before affixing a foil to a transmitter, read the recommendation below.

- To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol (99.5%) or heptane.

NOTE: Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. These cleaning recommendations may not be compliant with the rules of certain Air Quality Management Districts in California; consult applicable rules before use.

- Ideal tape application temperature range is 21 °C to 38 °C (70 °F to 100 °F).
- Initial tape application to surfaces at temperatures below 10 °C (50 °F) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

8.1 Affix a foil to the transmitter

1. Wipe the front of the transmitter with rubbing alcohol or other appropriate cleaner that won't leave any residue.
2. Dry with a clean cloth.
3. Peel off one side of the backing paper.
4. Position the side of the foil on the corresponding side of the transmitter.
5. While holding onto the side, gently press the foil onto the surface from the side out to the center.
6. Peel away the rest of the backing paper .
7. Slowly apply the other side of the foil, gently press from the center to the end.
8. Inspect the foil. If you see loose areas or bubbles, the surface probably wasn't warm or clean enough. Press the foil firmly against the surface to ensure good adhesion.

CHAPTER 9: WARRANTY, SERVICE, REPAIRS, AND MAINTENANCE

Tele Radio AB products are covered by a warranty against material, construction and manufacturing faults. During the warranty period, Tele Radio AB may replace the product or faulty parts. Work under warranty must be performed by Tele Radio AB or by an authorized service center specified by Tele Radio AB.

The following are **not** covered by the warranty:

- Faults resulting from normal wear and tear
- Parts of a consumable nature
- Products that have been subject to unauthorized modifications
- Faults resulting from incorrect installation and use
- Damp and water damage

Maintenance

Repairs and maintenance must be performed by qualified personnel

Only use spare parts from Tele Radio AB

Contact your representative for service or any other assistance

Keep the product in a clean, dry place

Keep contacts and antennas clean

Wipe off dust using a slightly damp, clean cloth

NOTE: Never use cleaning solutions or high-pressure washer.

CHAPTER 10: REGULATORY INFORMATION

NOTE: Models including additional naming conventions:

Model	Article names	Additional naming conventions
T19	T19-02	T19-2, T00019-02, PN-T19-2, PN-T19-02

10.1 Europe

Applies to:

T19-02

10.1.1 CE MARKING

Hereby, Tele Radio AB, declares that the radio equipment type(s) listed above is/ are in compliance with the Radio Equipment Directive 2014/53/EU.

The latest version of the complete EU Declaration of Conformity is available on the Tele Radio AB website, www.tele-radio.com.

10.1.2 WEEE DIRECTIVE



This symbol means that inoperative electrical and electronic products must not be mixed with household waste. The European Union has implemented a collection and recycling system for which producers are responsible. For proper treatment, recovery and recycling, please take this product to a designated collection point.

Tele Radio AB strives to minimize the use of hazardous materials, promotes reuse and recycling, and reduces emissions to air, soil and water. When a commercially viable alternative is available, Tele Radio AB strives to restrict or eliminate substances and materials that pose an environmental, health or safety risk.

10.2 North America

Applies to:

T19-02

10.2.1 FCC STATEMENT

This device complies with part 15 of the 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.

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

10.2.2 IC STATEMENT

This product complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

10.2.3 FCC/IC LABELS

The FCC ID and IC numbers can be found on the product label.

FCC ID: ONFC1409A

IC: 4807A-C1409A

10.3 Brazil

Applies to:

T19-02

10.3.1 ANATEL STATEMENT (DECLARAÇÃO ANATEL)

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Este produto não é apropriado para uso em ambientes domésticos, pois poderá causar interferências eletromagnéticas que obrigam o usuário a tomar medidas necessárias para minimizar estas interferências.

10.4 AEC

Applies to:

T19-02

10.4.1 AEC STATEMENT (ДЕКЛАРАЦИЯ ЕАС)

This product is declared as compliant within Eurasian Economic Union (EAC). EAC declaration is available on request.

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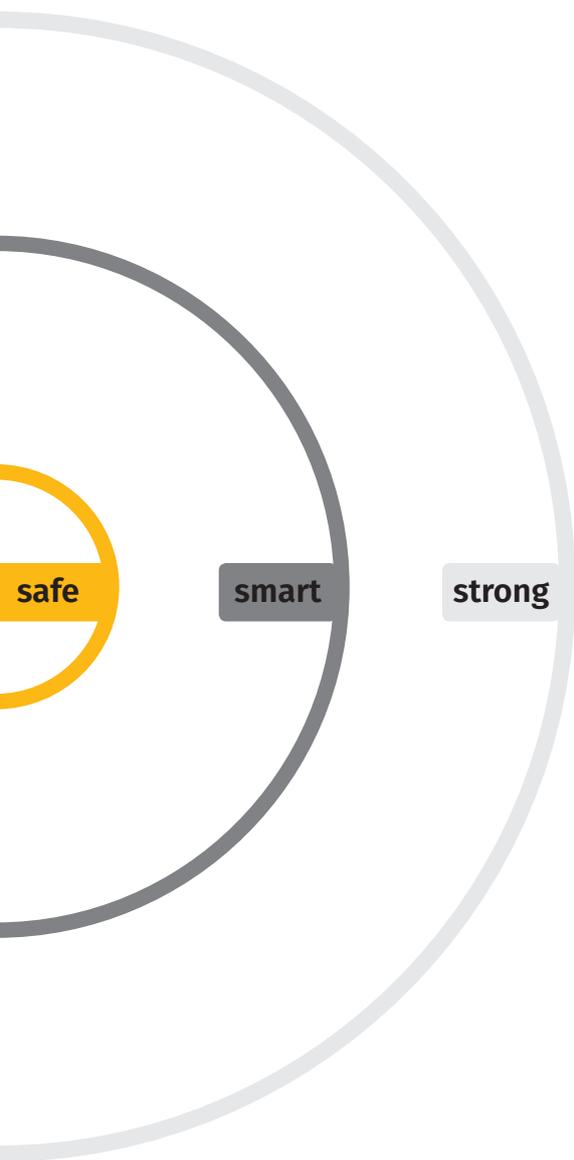
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wireless solutions

These End user instructions are subject to change without prior notice.

Download the latest End user instructions from www.tele-radio.com.