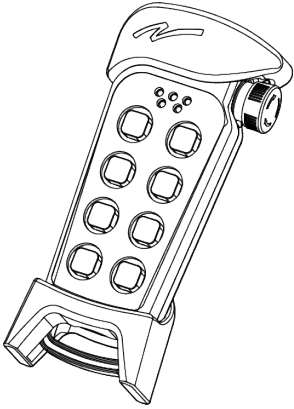


GENERAL INFORMATION

Transmitter T19

- T19-02 -



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.

About this document

Every care has been taken in the preparation of this document. Please inform Tele Radio AB of any inaccuracies or omissions. This document covers general safety issues, main technical specifications, warranty, service and maintenance and regulatory information. For more information, please refer to the End user instructions and the Installation instructions available on www.tele-radio.com. Images shown in this document are for illustrative purposes only.

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 Safety information sheet, the specific technical documentation (for customized systems), 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

INSTALLATION AND COMMISSIONING

IMPORTANT! Only licensed or qualified personnel should be permitted to install the product.



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



Always switch off all electrical power from the equipment before installation procedure.



To utilize the safety features of the system, use the stop relays in the safety circuitry of the object/ equipment to be controlled.



When the equipment controlled by the receiver's standard relays is connected via the stop relays, make sure that the maximum current through the stop relays is still within the specifications. Contact your representative for assistance.



RISK OF UNINTENDED EQUIPMENT OPERATION

Only transmitters that are intended for use should be registered in the receiver. Failure to follow these instructions could result in death, serious injury, or equipment damage.



RISK OF ELECTRIC SHOCK

The receiver must only be opened by qualified installers or authorized personnel. Make sure the power supply is switched off before opening the receiver. Failure to follow these instructions could result in death, serious injury, or equipment damage.

OPERATION



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



- Make sure that the user satisfies the age requirements in your country for operating the equipment.
- Make sure that the user is not under the influence of drugs, alcohol and medications.
- Make sure that the user knows and follows operating and maintenance instructions as well as all applicable safety procedures and requirements.

The user should:



- Always test the transmitter stop button before operating it. 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.

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 Safety information sheet 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.
- 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. If the encapsulation or foil is damaged, moisture can cause serious damage to the electronics.

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

EUROPE

Applies to:

T19-02

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.

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.

NORTH AMERICA

Applies to:

T19-02

FCC AND IC STATEMENTS

FCC: This product is in compliance with Part 15 of the FCC rules.

IC: This product is in compliance with Industry Canada's licence-exempt RSSs.

The complete statements are included in the corresponding End user instructions and Installation instructions available on www.tele-radio.com.

BRAZIL

Applies to:

T19-02

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.

AEC

Applies to:

T19-02

AEC STATEMENT (ДЕКЛАРАЦИЯ ЕАС)

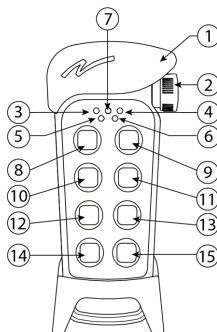
This product is declared as compliant within Eurasian Economic Union (EAC). EAC declaration is available on request.

PRODUCT GENERAL DESCRIPTION

NOTE: The pictures shown in this chapter are for illustrative purposes only. Depending on the configuration, the actual product appearance may differ from the basic model used for reference.

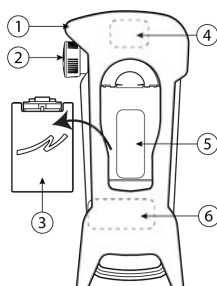
The pictures shown in this chapter are for illustrative purposes only.

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 |

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) |

TECHNICAL DATA

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)

¹Equivalent isotropic radiated power

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

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.

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.

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.

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)	<p>Do not charge in the Tele Radio AB charger unit.</p> <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).

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

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.

Tele Radio AB, Head office

Datavägen 21

¹Not included.

²Must be purchased separately.

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For more information about this product, please download the latest
End user instructions or Installation instructions from www.tele-radio.com.