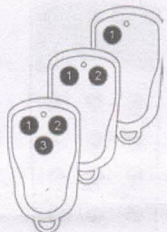


GENERAL INFORMATION

Transmitters T20TX

T20TX-0*NKL
T20TX-0*NKM



T20TX-15DMM
T20TX-15SMM



NOTE: *= 1, 2, or 3 depending on the number of buttons on the transmitter.

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, guarantee, 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.



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:



- 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.
- 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

EUROPE

Applies to:

T20TX-01NKL, T20TX-01NKM, T20TX-02NKL, T20TX-02NKM, T20TX-03NKL, T20TX-03NKM

T20TX-15DMM, T20TX-15SMM

CE MARKING

Hereby, Tele Radio AB, declares that the radio equipment type(s) listed above is/ are in compliance with 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:

T20TX-01NKL, T20TX-02NKL, T20TX-03NKL

FCC AND IC STATEMENTS

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

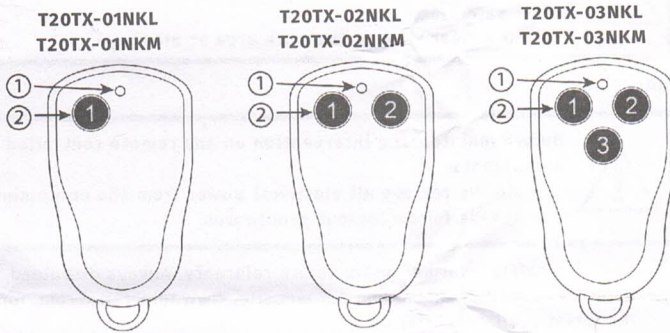
IC: This product is in compliance with Industry Canada's licence-exempt RSSs.

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

T20TX-0*NKL, T20TX-0*NKM
TRANSMITTERS

NOTE: *= 1, 2 or 3 depending on the number of buttons on the transmitter.

Product description



- 1. LED
- 2. Push buttons

Technical data

	T20TX-0*NKL	T20TX-0*NKM
Power supply	1 x 3 V CR2032 battery	
Radio frequency band	433.92 MHz	869MHz
Radio frequency output power	EIRP ¹ < 1 dBm (1.26 mW)	
IP code	IP65	
Operating temperature	-20...+55°C / -4...+130°F (humidity 10-90%)	
Dimensions	71 x 38 x 12 mm	

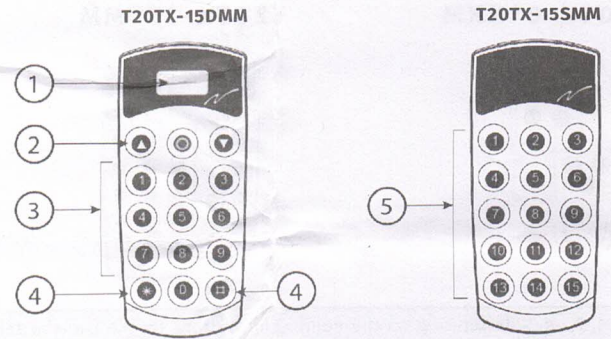
Radio transmission

Transmission continues during the time that each function button is pressed and is interrupted when the button is released. The red LED flashes while the button is pressed.

¹Equivalent isotropic radiated power

T20TX-15DMM, T20TX-15SMM
TRANSMITTERS

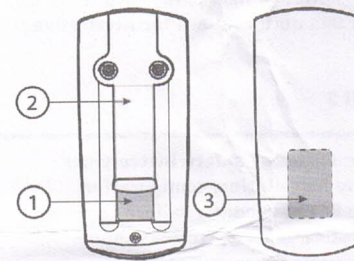
Product description



- 1. LCD display
- 2. Function buttons
- 3. Door-number buttons
- 4. Shortcut functions
- 5. Door-number buttons

Transmitter back

T20TX-15DMM, T20TX-15SMM



- 1. Product label
- 2. Clip
- 3. Battery 9 V, 6F22 (under PCB)

SHORTCUT FUNCTIONS (T20TX-15DMM)

The *-buttons and #-buttons are used for programming a shortcut (one selection per button) for a particular function.

Technical data

	T20TX-15DMM, T20TX-15SMM
Power supply	9 V, 6F22
Radio frequency band	869.85 MHz
Radio frequency output power	EIRP ¹ < 1 dBm (1.26 mW)
IP code	IP65
Operating temperature	-20...+55°C / -4...+130°F (humidity 10-90%)
Dimensions	43 x 62 x 38 mm

BATTERY PRECAUTIONS

Carefully read through 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.

¹Equivalent isotropic radiated power

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.

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

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Sweden

Phone: +46 (0)31 748 54 60, Fax: +46 (0)31 68 54 64

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