

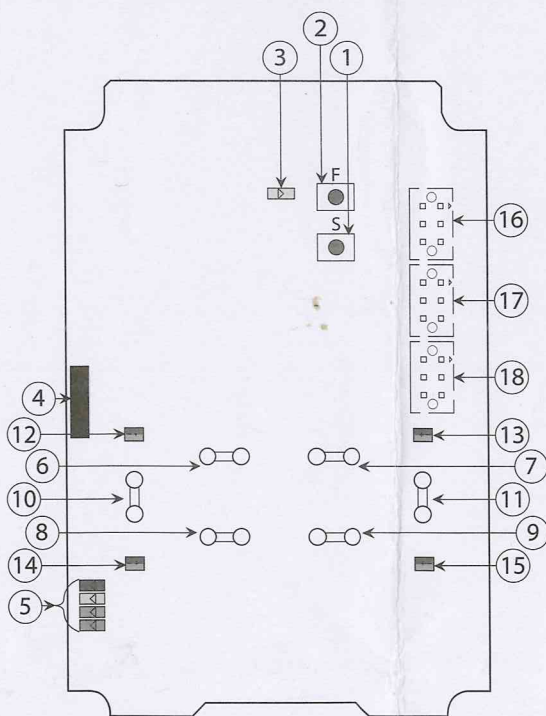
TELE RADIO AB Receiver Instructions

RECEIVER PN-R17-1



WARNING! The receiver must NOT be opened by anyone other than a qualified installer. Make sure that the electricity is switched off before opening the receiver.

BASE BOARD



1. Select button (OK)
2. Function button (cancel)
3. Power LED (yellow)
4. Programming connector
5. Function LEDs
(5 = red, 6 = yellow, 7 = green, 8 = orange)
6. Transistor output 1*
7. Transistor output 2*
8. Transistor output 3*
9. Transistor output 4*
10. Input power GND*
11. Input power 12-24V DC*
12. Status LED 1 for transistor output 1 (red/green)
13. Status LED 2 for transistor output 2 (red/green)
14. Status LED 3 for transistor output 3 (red/green)
15. Status LED 4 for transistor output 4 (red/green)
16. Connector for various inputs (not in use)
17. Connector for various inputs (not in use)
18. Connector for various inputs (not in use)

*Blade terminal (4.8 mm, male)

TECHNICAL DATA

Number of transistor outputs	4*
Digital inputs	0
Input power	12-24V DC
Radio communication	Simplex
Max. number of registered transmitters	8
IP code	65
Dimensions	80 x 54 x 38 mm / 3 x 2 x 1.5 in
Weight	Max. 200 g / 0.44 lbs
Operating temperature	-20 - +55 °C / -4 - +130 °F
Frequency band	2405-2480 MHz
Number of channels	16 (channel 11-26)
Antenna	Internal antenna

* Maximum continuous current for a transistor is 3A.

Maximum intermittent current for a transistor is 10A (at 25 °C).

STATUS LED INDICATION FOR TRANSISTOR OUTPUTS

Red	High output signal
Green	Low output signal
Off	High impedance

FUNCTION LEDS INDICATION

LED	Colour	Off	On	Indicates
5	red	x		No transmitter is registered.
			x	Flashes once: One or more transmitters are registered. No radio transmission established.
			x	Double flash: One or more transmitters are registered and logged in. No radio transmission established.
			x	Radio transmission established.
6	yellow		x	Receiving a radio packet from a transmitter other than a Panther.
6	yellow		x	Receiving a radio packet from a transmitter set to the radio mode different from that of a receiver.
7	green		x	Receiving a radio packet, low signal (RSSI).
8	orange		x	Receiving a radio packet, configuration ID not accepted.
7	green		x	Receiving a radio packet, custom ID not accepted.
6	yellow		x	1. Receiving a radio packet from a registered transmitter. The receiver is already controlled by another registered transmitter. NOTE! "Radio link" must be activated in the receiver. 2. Load select mode is activated. Incorrect Load is selected on the transmitter.
7	green			
8	orange			

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 Receiver Instructions

WARNINGS & RESTRICTIONS

WARNING! Tele Radio AB remote controls are often built into wider applications. We recommend that the system is equipped with a wired emergency stop where necessary.

INSTALLING, CONNECTING AND MOUNTING

- Only permit licensed or qualified personnel to install the product.
- Switch off the power supply to the receiver before connecting the equipment.
- Check that the power supply is connected to the correct connection terminal.
- To utilize the safety of the system, use the stop relays in the safety circuitry of the object that you want to control.
- Do not use damaged cables. Cables must not hang loose.
- Avoid installing in areas affected by strong vibrations.
- The receiver withstands normal weather conditions but should be protected from extreme conditions. The receiver should also not be subjected to mechanical water pressure i.e. a pressure washer or similar adverse conditions.
- Avoid installing the receiver in a place where it will be subjected to high water flows and/or heavy precipitation.
- Cable glands and vent plugs must face downwards to prevent water from gaining access.

THE USER

- Only permit qualified personnel to access the transmitter and operate the equipment.
- Make sure that the user follows the instructions.
- 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 or medications.
- Make sure that the user does not leave the transmitter unsupervised.
- Make sure that the user always switches the transmitter off when it is not in use.
- Make sure that the user has a clear view of the work area at all times.

MAINTENANCE

- Use the stop button to start and switch off the transmitter as often as possible.
- If error messages are shown, it is very important to find out what caused them.
- If the stop button is mechanically damaged, contact your representative for service immediately.
- Always contact your representative for service and maintenance work on the product.
- Write down the serial numbers/ID codes of the receivers and transmitters used. This information should be recorded in the "Settings document" for your product (download from our website).
- Avoid registering transmitters in receivers where they are not being used.
- Keep the safety instructions for future reference. Always download the configuration instructions from our website for the latest available version.

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

The following are not covered by the guarantee/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 carried out by qualified personnel
- Use spare parts from Tele Radio AB only
- Contact your representative if you require service or other assistance
- Keep the product in a dry, clean place
- Keep contacts and antennas clean
- Wipe off dust using a slightly damp, clean cloth

WARNING! Never use cleaning solutions or high-pressure water.

CE MARKING

This product is in compliance with the essential requirements of directive 1995/5/EC of the European Parliament and of the Council. Latest version of the EC Declaration of Conformity can be downloaded from the Tele Radio AB website, www.tele-radio.com.

Tele Radio AB, Head office

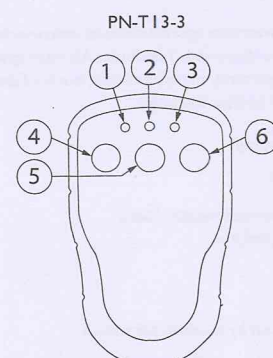
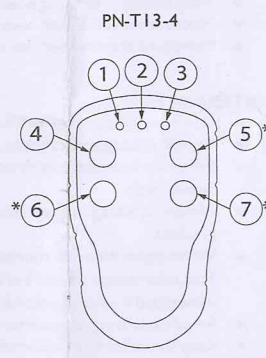
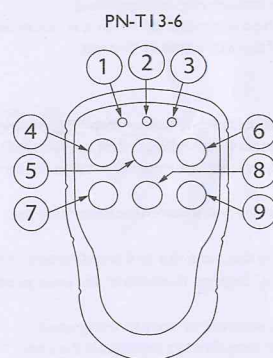
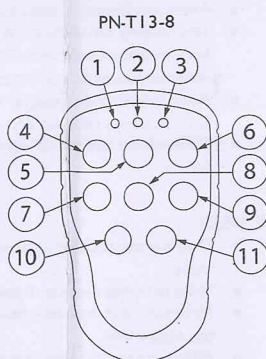
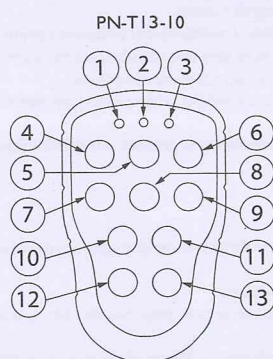
Datavägen 21, S-436 32 Askim
Sweden

Tel: +46-31-748 54 60, Fax: +46 31 68 54 64

For more information about this product, download the latest Installation instruction from www.tele-radio.com.

TELE RADIO AB Transmitter Instructions

TRANSMITTER FRONT



1. LED 1 (red)
2. Top LED (red, green)
3. LED 2 (red)
4. Button 1
5. Button 2

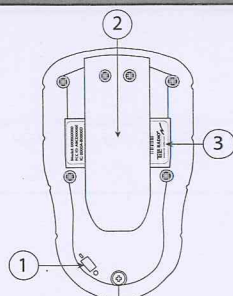
6. Button 3
7. Button 4
8. Button 5
9. Button 6
10. Button 7

11. Button 8
12. Button 9
13. Button 10

* On PN-T13-4, the default buttons 3, 4 and 6 have been remapped to work as buttons 2, 3 and 4. Contact your representative for more details.

NOTE! Performing a "factory reset" of the unit will return the settings to the factory defaults and all button remapping will be lost.

TRANSMITTER BACK



1. On/off switch*
2. Clip
3. Product label

*The on/off switch on the back of the transmitter interrupts the power supply from the battery. When in the off position, the transmitter cannot be started. When the transmitter is transported

by airplane, the on/off switch must be in the off position. The switch should not be used as an on/off button for the transmitter.

TECHNICAL DATA

	PN-T13-10	PN-T13-8	PN-T13-6	PN-T13-4	PN-T13-3
Number of buttons	10 x 1-step button	8 x 1-step button	6 x 1-step button	4 x 1-step button	3 x 1-step button
Battery	2 x 1.5V AAA / LR03 Alkaline				
On/off switch	Yes				
Radio communication	Simplex				
Dimensions	66 x 114 x 37.5 mm / 2.6 x 4.5 x 1.5 in				
Weight	135 g / 0.29 lbs				
Frequency band	2405-2480 MHz				
Number of channels	16 (channel 1-26)				
IP code	67				
Operating temperature	-20 - +55 °C / -4 - +130 °F				

RADIO MODE

NOTE! You cannot change the radio mode from the transmitter. Contact your representative for assistance.

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 discontinuous radio mode by default. The transmitter starts transmitting as soon as the batteries are inserted and any transmitter button is pressed. Radio transmission ends when all transmitter buttons are released.

START THE TRANSMITTER

1. Start the transmitter by pressing any button on the transmitter.
The top LED lights (green when the battery capacity is good, red when the battery capacity is poor).

SWITCH THE TRANSMITTER OFF

1. The transmitter switches off when no transmitter button is pressed.

REGISTER THE TRANSMITTER IN THE RECEIVER

WARNING! Only keep the transmitters that you intend to use registered in the receivers.

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

1. Press the receiver Function button.
The function LED lights (red).
2. Press the receiver Select button.
The relay LEDs light (red).
3. Press buttons 1 and 2. Keep pressed.
The relay LEDs light (red). The relay LEDs flash (red) 2 times.
4. Release buttons 1 and 2.
The relay LEDs flash (red) 1 time.
The transmitter is registered.

If no transmitter is found within approximately 10 seconds, the receiver exits to normal operation.

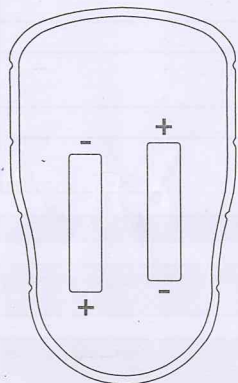
TELE RADIO AB Transmitter Instructions

ERASE ALL TRANSMITTERS FROM THE RECEIVER

1. Press the receiver Function button.
The function LED lights (red).
2. Press the receiver Select button. Keep pressed (at least 4 seconds).
All relay LEDs light (red). All relay LEDs go out.
3. Release the receiver Select button.
All transmitters are erased from the receiver.

If the function LED flashes (red), one or more transmitters are still registered in the receiver.

CHANGE BATTERIES



Battery type: 2 x 1.5V AAA / LR03 Alkaline

1. Remove the back of the transmitter by unscrewing the 5 screws.
2. Replace the 2 x 1.5V AAA batteries. Use alkaline batteries for optimal performance.
3. Screw the back of the transmitter into place.

WARNING! Do not recharge the batteries. 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. Make sure that electronics or batteries are not disposed of in household waste.

NOTE! When approximately 10 % of battery capacity remains, the top LED lights red.

BATTERY PRECAUTIONS

Observe the following general battery warnings:

- As batteries contain flammable substances such as lithium or other organic solvents, they may cause heating, rupture or ignition.
- Risk of explosion if a battery is replaced with the incorrect type of battery.
- Do not short circuit, disassemble, deform or heat batteries.
- Never try to charge a visibly damaged or frozen battery.
- Keep batteries out of reach of small children. If a child swallows a battery, seek immediate medical attention.
- Avoid direct soldering to batteries.
- When discarding batteries, insulate the + and - terminals of batteries with insulating/masking tape. Do not put multiple batteries into the same plastic bag.
- When improperly disposed, batteries may short circuit, causing them to become hot, burst or ignite.
- Store in a cool place. Keep batteries away from direct sunlight, high temperatures, and high humidity.
- Do not throw batteries onto fire.

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.

WARNINGS & RESTRICTIONS

WARNING! Tele Radio AB remote controls are often built into wider applications. We recommend that the system is equipped with a wired emergency stop where necessary.

INSTALLING, CONNECTING AND MOUNTING

- Only permit licensed or qualified personnel to install the product.
- Switch off the power supply to the receiver before connecting the equipment.
- Check that the power supply is connected to the correct connection terminal.
- To utilize the safety of the system, use the stop relays in the safety circuitry of the

object that you want to control.

- Do not use damaged cables. Cables must not hang loose.
- Avoid installation in areas subject to strong vibrations.
- The receiver can withstand normal weather conditions but should be protected from extreme conditions. The receiver should also not be subjected to mechanical water pressure i.e. a pressure washer or similar adverse conditions.
- Avoid installing the receiver in a place where it will be subjected to high water flows and/or heavy precipitation.
- Cable glands and vent plugs must face downwards to prevent water from gaining access.

THE USER

- Only permit qualified personnel to access the transmitter and operate the equipment.
- Make sure that the user follows the instructions.
- Make sure that the user meets the age requirements in your country for operating the equipment.
- Make sure that the user is not under the influence of drugs, alcohol or medications.
- Make sure that the user does not leave the transmitter unsupervised.
- Make sure that the user always switches the transmitter off when it is not in use.
- Make sure that the user has a clear view of the work area at all times.

MAINTENANCE

- Use the stop button to start and switch off the transmitter as often as possible.
- If error messages are shown, it is very important to find out what caused them.
- If the stop button is mechanically damaged, contact your representative for service immediately.
- Always contact your representative for service and maintenance work on the product.
- Write down the serial numbers/ID codes of the receivers and transmitters used. This information should be recorded in the "Settings document" for your product (download from our website).
- Avoid registering transmitters in receivers where they are not being used.
- Keep the safety instructions for future reference. Always download the configuration instructions from our website for the latest available version.

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

The following are **not** covered by the guarantee/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 carried out 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 pressurized water.

CE MARKING

This product is in compliance with the essential requirements of directive 1995/5/EC of the European Parliament and of the Council. Latest version of the EC Declaration of Conformity can be downloaded from the Tele Radio AB website, www.tele-radio.com.

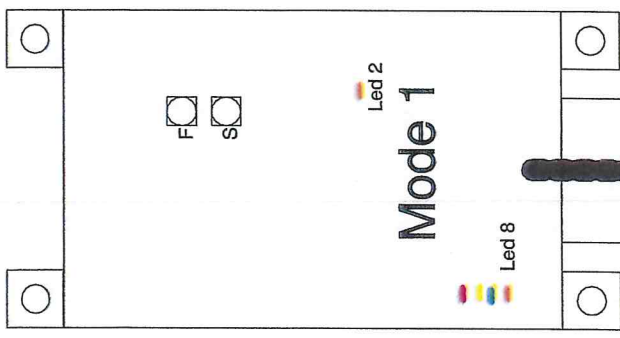
Tele Radio AB, Head office

Datavägen 21, S-436 32 Askim
Sweden

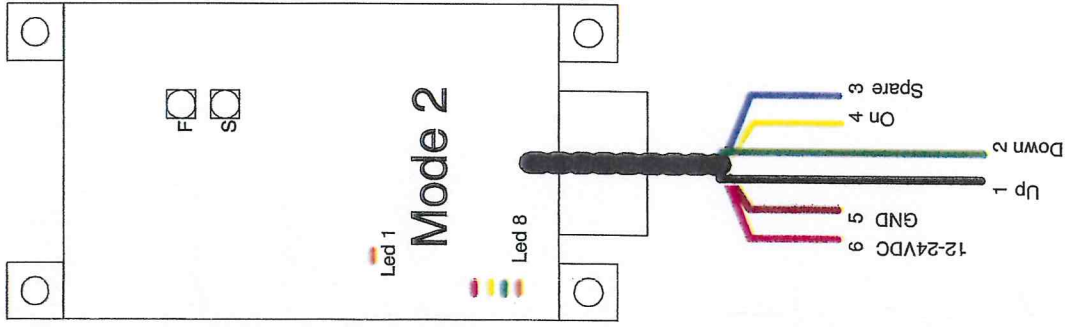
Tel: +46-31-748 54 60, Fax: +46 31 68 54 64

For more information about this product, download the latest Installation instruction from www.tele-radio.com.

PNS-R171-T716



Wisselen van Mode
Druk 4 maal op de F toets
Led 8 brandt oranje
Druk 1 maal op de S toets
Led 8 knippert oranje
Druk 1 maal op de F toets
Led 1 en 2 wisselen om
Druk 1 maal op de S toets
Systeem herstart



Title		PNS-R171-T716
Author		Tele-Radio B.V.
File	Document	
Revision	Date	
PNS-R171-T1365PNS-R171-T716.dsn		
Revision		Sheets