

Tele Radio Panther

SAFETY INSTRUCTION



LANGUAGE: ENGLISH (ORIGINAL)

ARTICLE NO:

RECEIVER R00008-07

TRANSMITTER T00007-14

THANK YOU FOR PURCHASING A TELE RADIO PRODUCT

READ ALL INSTRUCTIONS AND WARNINGS CAREFULLY BEFORE MOUNTING, INSTALLING AND CONFIGURING THE PRODUCTS.

These instructions are published by Tele Radio AB without any guarantee. The instructions may be removed or revised by Tele Radio AB at any time and without further notice. Corrections and additions will be added to the latest version of the instruction. Further instructions concerning installation, configuration and usage of the system is published on or download web: www.tele-radio.com

Tele Radio AB products are covered by a guarantee/ warranty against material, construction or manufacturing faults. During the guarantee/ warranty period, Tele Radio AB may replace the product or faulty parts with new. Work under guarantee/ warranty must be carried out by Tele Radio AB or by an authorized service center specified by Tele Radio AB. Contact your Tele Radio AB representative if you need support or service.

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WARNINGS & RESTRICTIONS

INSTALLING, CONNECTING AND MOUNTING

- Allow only licensed or qualified personnel to install the product.
- Switch the power supply off to the receiver before connecting the equipment.
- Check that you have connected the power supply 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.
- Use undamaged cables. No cables should hang loose.
- Avoid installing in areas affected by strong vibrations.
- Place the receiver well away from wind, damp and water.
- Cable glands and vent plugs must face down to prevent water from seeping in.

THE USER

- Make sure that the user is following the instructions.
- Make sure that the user has reached the certified age of your country to operate the equipment.
- Make sure that the user is not under the influence of drugs, alcohol and medicines.
- Allow only qualified personnel to have access to the transmitter and operate the equipment.
- Make sure that the user does not leave the transmitter unsupervised.
- Make sure that the user always turns the transmitter off when not in use.
- Make sure that the user keeps a good overview of the work area.

MAINTENANCE

- Use the stop button to start and turn off the transmitter as often as possible.
- When 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 of the receivers and transmitters used. This information should be recorded on the "Settings document" for your product (download from our website).
- Avoid registering transmitters to receivers where it is not being used.
- Keep the safety instruction for future reference. Always download the configurations instruction from our web site for the latest version available.

INSTALL, OPERATE AND MAKE SETTINGS

IMPORTANT! The transmitter must be registered in the receiver before it is possible to start a radio session. For safety reasons only qualified personnel should be able to install, register and make settings to the Panther system.

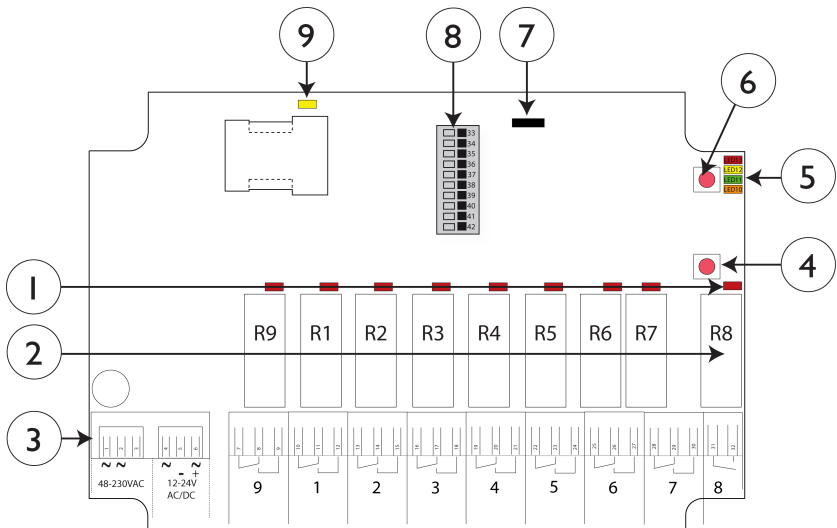
Installation instructions as well as end user instructions are available for download at:
www.tele-radio.com

Please, contact your representative for further assistance.

RECEIVER R00008-07

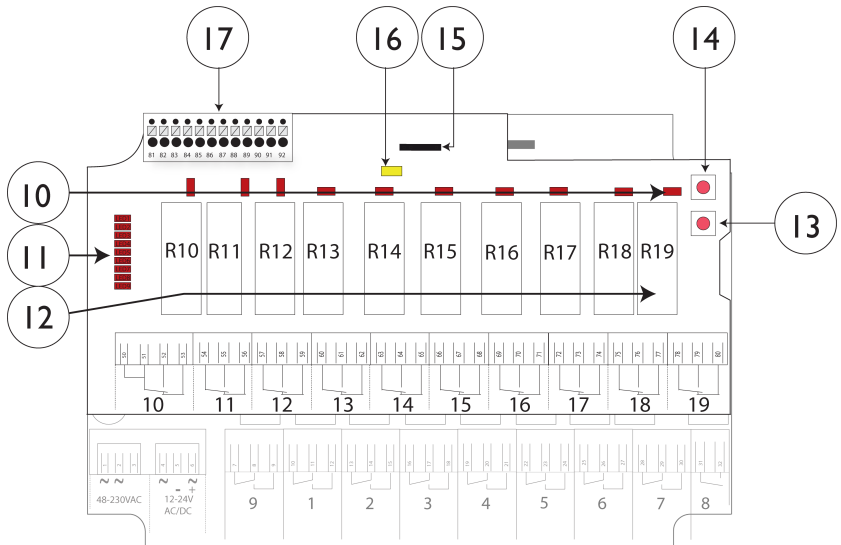
WARNING! The receiver must NOT be opened by any other than a qualified installer. Make sure to turn the electricity off before opening the receiver.

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



Base board:

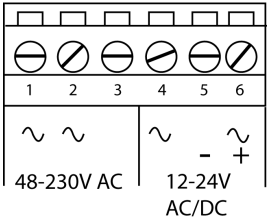
1. Relay LEDs (red)	6. Function button (Cancel)
2. Function relays 1-9	7. Programming connector
3. Terminal block for input power	8. Terminal block for digital inputs
4. Select button (OK)	9. Power LED (yellow)
5. Function LEDs (10= orange, 11= green, 12= yellow, 13=red)	



Expansion board:

10. Relay LEDs (red)	14. Function button (Cancel)
11. LEDs representing the function relays on the base board	15. Programming connector
12. Function relays 10-19	16. Power LED (yellow)
13. Select button (OK)	17. Terminal block for digital inputs

TERMINAL BLOCK FOR INPUT POWER

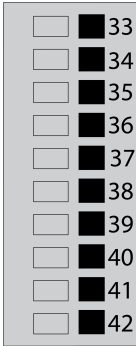


- 1. 48-230 V AC
- 2. 48-230 V AC
- 3. (not used)
- 4. ~ 12-24 V AC/DC
- 5. negative terminal DC voltage*
- 6. ~+12-24 V AC/DC

* use when digital inputs are connected to receiver

TERMINAL BLOCK FOR DIGITAL INPUTS

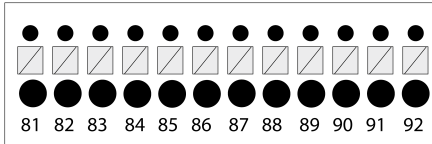
Base board:



33. GND	38. Digital input 5
34. Digital input 1	39. Digital input 6
35. Digital input 2	40. Digital input 7
36. Digital input 3	41. Digital input 8
37. Digital input 4	42. GND

TERMINAL BLOCK FOR DIGITAL INPUTS

Expansion board:



81. GND	87. Digital input 11
82. GND	88. Digital input 12
83. GND	89. Digital input 13
84. GND	90. Digital input 14
85. Digital input 9	91. Digital input 15
86. Digital input 10	92. Digital input 16

CURRENT CONSUMPTION

Input power	Min.*	Max.**
12V AC	0.02A	0.6A
24V AC	0.02A	0.3A
48V AC	0.008A	0.2A
115V AC	0.004A	0.07A
230V AC	0.003A	0.04A
12V DC	0.03A	0.5A
24V DC	0.02A	0.3A

* Minimum current consumption= Receiver on, no radio communication established, nothing activated.

** Maximum current consumption= All relays activated on the receiver.

LEDS ON THE EXPANSION BOARD REPRESENTING THE
FUNCTION RELAYS ON THE BASE BOARD

LED1

LED2

LED3

LED4

LED5

LED6

LED7

LED8

LED9

LED 1= function relay 1

LED 2= function relay 2

LED 3= function relay 3

LED 4= function relay 4

LED 5= function relay 5

LED 6= function relay 6

LED 7= function relay 7

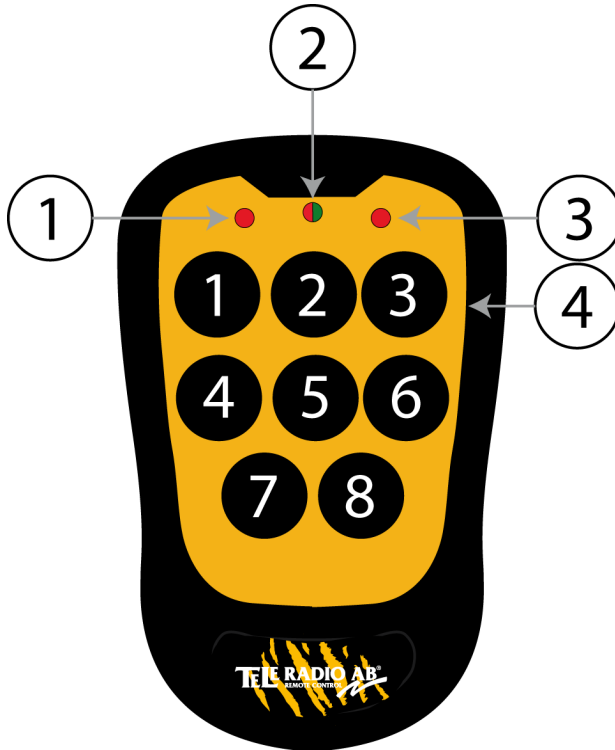
LED 8= function relay 8

LED 9= function relay 9

TECHNICAL DATA

Number of function relays	19 (potential free*, 8A)
Digital inputs	8
Duplex/ simplex communication	Simplex
Operating frequency	2405-2480 MHz.
Number of channels	16 (channel 11-26)
IP class	66
Size	176 x 126 x 75 mm./ 6.9 x 5 x 2.9 in.
Weight	800 g./ 1.8 lbs.
Antenna	1 external BNC antenna
Rated voltage	12-24 VDC. Max. 1A 12-24/48-230 VAC, 50-60 Hz. Max. 1A

* potential free means that you have to supply voltage to get voltage out of a relay

TRANSMITTER T00007-14

1. LED 1 (red)

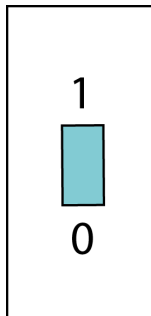
3. LED 2 (red)

2 Top LED (green/red)

4. 1-step push buttons 1-8

TECHNICAL DATA

No. of buttons	8 x 1-step buttons
On/off switch	Yes
Size	83 x 52 x 31 mm./3.3 x 2 x 1.2 in. (incl. clip)
Weight	70 g./ 0.15 lbs. (incl. batteries)
No. of channels	16 (channel 11-26)
Operating frequency	2405-2480 MHz.
Battery type	2 x 1.5V AAA alkaline

ON/OFF SWITCH

The transmitter has an on/off switch on the backside. The on/off switch has 2 positions:
1= on
0= off
The on/off switch breaks the power supply from the battery.

START THE TRANSMITTER

1. Press button 7 (the ON button) for at least 1 second.
2. Release button 7 (the ON button) when the top LED turns green.
3. The transmitter is started.

TURN THE TRANSMITTER OFF

1. Press button 8 (the OFF button).
2. The transmitter sends a stop command for 1 second.
3. The transmitter turns off.

REGISTER THE TRANSMITTER IN THE RECEIVER

1. Press the function button on the receiver (LED 1 lights red).
2. Press the select button on the receiver (the relay LEDs light red).
3. Press button 1 + 2 on the transmitter that you want to register in the receiver.
4. The relay LEDs in the receiver flash 3 times when the transmitter is registered.
5. If the transmitter isn't found by the receiver within 10 seconds, the receiver will exit registration mode and go back to normal operation.

ERASE THE TRANSMITTER FROM THE RECEIVER

1. Press the function button on the receiver (LED 13 lights red).
2. Press the select button on the receiver (the relay LEDs light red). KEEP PRESSED!
3. Release the select button when the red relay LEDs go out (after approx. 4 seconds).
4. All registered transmitters have been erased from the receiver.

RELAY FUNCTIONALITY

Button 1 activates relay 1, 8, 15
Button 2 activates relay 2, 9, 16
Button 3 activates relay 3, 10, 17
Button 4 activates relay 4, 11, 18
Button 5 activates relay 5, 12, 19
Button 6 activates relay 6, 13
Button 7 activates relay 7, 14
Button 8 is the OFF button

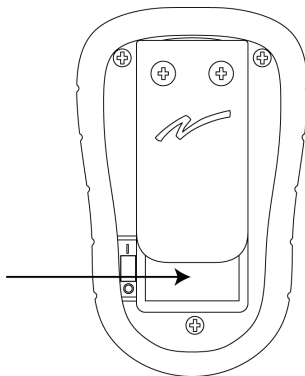
CHANGE THE BATTERIES

WARNING! Do not recharge the batteries. Attempts to recharge may cause rupture or the leaking of hazardous liquids, which will corrode the equipment.



1. Remove the backpiece (3 screws).
2. Remove the old batteries.
3. Put the new batteries in (2 x 1.5V AAA alkaline batteries).
4. Replace the backpiece (3 screws).

FCC/ IC LABEL



FCC STATEMENT

Statement for warning:

Caution: The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Industry Canada licence-exempt RSS standard(s) and 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence et la partie 15 des Règles FCC. L'exploitation est autorisée aux deux conditions suivantes :

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

This equipment complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition au rayonnement RF stipulées par la FCC et l'IC pour une utilisation dans un environnement non contrôlé. L'utilisateur final doit suivre les instructions de fonctionnement spécifiques pour le respect d'exposition aux RF. Les émetteurs ne doivent pas être placés près d'autres antennes ou émetteurs ou fonctionner avec ceux-ci.

Note: 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.

BATTERY PRECAUTIONS

Observe the following general battery warnings:

- As batteries contains flammable substances such as lithium or other organic solvents, they may cause heating, rupture or ignition.
- Risk of explosion if battery is replaced with a battery of an incorrect type.
- 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. Should a child swallow a battery, consult a physician immediately.
- Avoid direct soldering to batteries.
- When discarding batteries, insulate the + and - terminals of batteries with insulating/ masking tape. Do not put multiple batteries in the same plastic bag.
- When improperly disposed, lithium batteries may short circuit, causing them to become hot, burst or ignite.
- Store in a cool location. Keep batteries away from direct sunlight, high temperature, and high humidity.
- Do not throw batteries into fire.

ROHS AND WEEE

In accordance with Directive 2002/95/EC on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) and Directive 2002/96/EC on waste electrical and electronic equipment (WEEE), 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.

GUARANTEE AND MAINTENANCE

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

This is 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 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

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

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