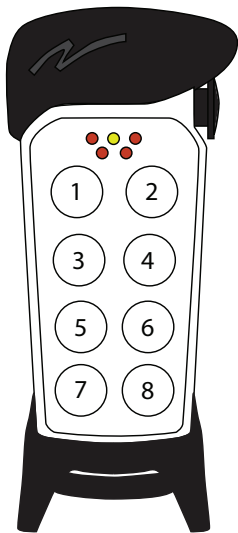


# Tele Radio Panther

## SAFETY INSTRUCTIONS



Standard settings

LANGUAGE: ENGLISH (ORIGINAL)

ARTICLE CODE: PN-R8-1, PN-T7-2



Thank you for purchasing a Tele Radio product

PN-R8-1, PN-T7-2

READ ALL INSTRUCTIONS CAREFULLY BEFORE MOUNTING, INSTALLING AND CONFIGURATING THE PRODUCT.

These instructions are published by Tele Radio AB without any guarantee. These instructions are solely directed towards qualified installers. The instructions may be removed or revised by Tele radio AB at any time and without any further notice. Corrections and additions will be added to the updated versions of the instructions.

The instructions that contain information on the installation and configuration of the remote radio control unit on the machine are not intended to be passed on to the end user. Only such information may be passed on to the end user, that is needed to operate the machine correctly by radio remote control.

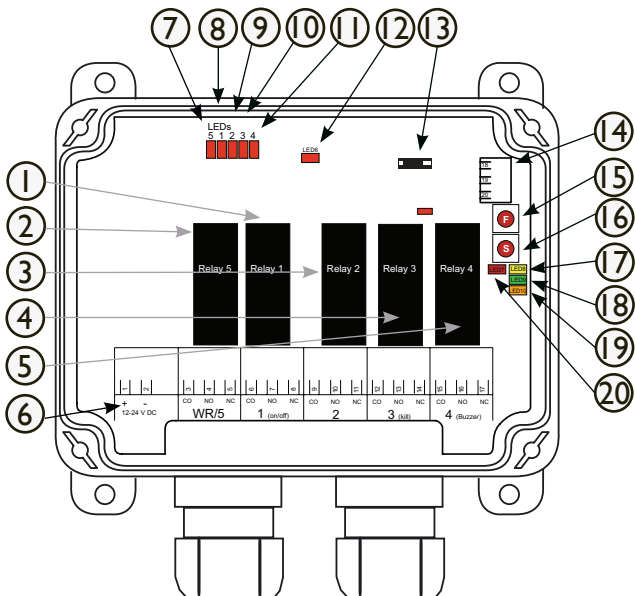
Tele Radio AB products are covered by a guarantee against material, construction or manufacturing faults. During the guarantee period, Tele Radio AB may replace the product or faulty parts with new. Work under guarantee must be carried out by Tele Radio AB or by an authorized service centre specified by Tele Radio AB. Make sure that repairs and maintenance are only carried out by qualified personnel. Use only spare parts from Tele Radio AB. Contact your Tele Radio representative if you need service or support. The EC declaration of conformity can be downloaded from our website.

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C € 2150

# TECHNICAL DATA RECEIVER R8-1 (BASE BOARD)



- |  |                                  |
|--|----------------------------------|
| 1. Relay 1- on/off relay               | 12. Power supply LED 6           |
| 2. Relay 5- work relay                 | 13. Trabus programming connector |
| 3. Relay 2                             | 14. Terminal block for RS232     |
| 4. Relay 3- kill relay                 | 15. Function button (Cancel)     |
| 5. Relay 4- buzzer relay               | 16. Select button (OK)           |
| 6. Power supply connection<br>6-30V DC | 17. LED 8                        |
| 7. Relay LED 5                         | 18. LED 9                        |
| 8. Relay LED 1                         | 19. LED 10                       |
| 9. Relay LED 2                         | 20. LED 7                        |
| 10. Relay LED 3                        |                                  |
| 11. Relay LED 4                        |                                  |

## Current consumption

RECEIVER MODEL	SUPPLY VOLTAGE	MAX. CURRENT CONSUMPTION
<b>R8-I</b>	12-24V DC	<200 mA.

### Technical data

<b>FUNCTIONAL RELAYS:</b>	5 potential free* functional relays NO/NC 8A ACI
<b>NUMBER OF CHANNELS:</b>	16
<b>SIZE:</b>	120 x 116 x 50 mm./ 4.7" x 4.6" x 2"
<b>WEIGHT:</b>	400 grams/ 14 oz.
<b>IP CLASS:</b>	IP66
<b>FREQUENCY:</b>	2405-2480 MHz.

\* Potential free means that you need to supply voltage to get power out of a relay (e.g. via a connection comb).

## SYSTEM APPLICATION AREA

The Panther system is a simplex radio communication system that is preferentially aimed towards professional industry, e.g. radio controlling of winches and mobile applications. The functionality of the Panther systems is as varied and versatile as are the needs of our customers.

## LED INDICATIONS

### LED INDICATIONS DURING START UP

1. All receiver LEDs lit up for 0.5 sec. to show that they are working.
2. Current settings are shown for 2 sec.

On relay LEDs 1-4:

Relay LED 1	OFF	Continuous transmitting mode
	ON	Discontinuous transmitting mode
Relay LED 2	OFF	Custom ID not enabled
	ON	Custom ID enabled
Relay LED 3	OFF	Configuration ID not enabled
	ON	Configuration ID enabled
Relay LED 4	OFF	Frequency scan on
	ON	Frequency scan off (fixed frequency)

On LED 7, 8 and 9:

LED 7	ON	Operating mode 1 (direct mode)
LED 8	ON	Operating mode 2 (lifting mode)
LED 9	ON	Operating mode 3 (LML mode)

### LED INDICATIONS IN PROGRAMMING MODE

LED 7	red	ON	
LED 8	yellow	ON	
LED 9	green	ON	
LED 10	orange	ON	

## LED INDICATIONS DURING OPERATION

LED 6	red	ON	Power to the receiver is on
		OFF	Power to the receiver is off
LED 7	red	OFF	No transmitter registered
		flashes (slow)	At least one transmitter is registered and one transmitter is logged in, but not transmitting.
		flashes (quick)	At least one transmitter is registered, but not transmitting.
		ON	Valid radio packages from a registered transmitter received.

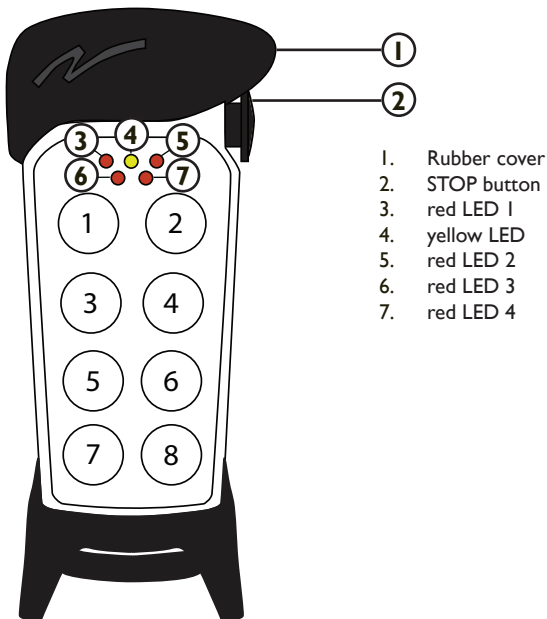
## ERROR INDICATIONS ON LEDS

LED 7 (red)	+	LED 8 (yellow)	ON	Reading of production data failed. Contact your representative.
LED 7 (red)			ON	Radio module startup failed. Contact your representative.

LED 8			ON	A radio package not coming from a Panther transmitter is received.
LED 8	+	LED 9	ON	A radio package from a transmitter in a different mode (discontinuous or continuous) than the receiver is received.
LED 8	+	LED 10	ON	A radio package is received from a transmitter that is not registered.
LED 9			ON	A radio package is received, but the radio signal strength (RSSI) is too low.
LED 10			ON	A radio package is received, but the configuration ID is not accepted.

# TECHNICAL DATA TRANSMITTER

## 8-BUTTONS TRANSMITTER T7-2



### STOP BUTTON TEST

**IMPORTANT!** We recommend that the functionality of the STOP button is being tested at a regular basis: At a minimum, when used for 200 hours. Test the STOP button by pressing and pulling it out.

Frequency: 2405-2480 MHz.



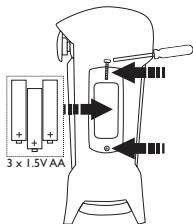
## Technical data T7-2 transmitter

NUMBER OF BUTTONS	8 x 2-step pushbuttons
BATTERIES	3 x 1.5V AA exchangeable
DEGREE OF PROTECTION	IP65
NUMBER OF CHANNELS	16
SIZE	7.3 cm. x 17.8 cm./2.9 x 7 in. (excl. rubber cover)
WEIGHT	250 g./ 0.55 lbs. (excl. rubber cover, incl. batteries)
FREQUENCY	2405-2480 MHz.

### Install batteries

1. Remove the battery cover (2 screws).
2. Put the batteries (3 x 1.5V AA batteries) in.
3. Put back the battery cover (2 screws).

*For optimum performance, use alkaline batteries.*



### The rubber cover

The transmitter comes with a removable rubber cover that helps prevent the transmitter from bumps, dirt and dust. The rubber cover can be removed and wiped off.

#### Remove the rubber cover

1. Loosen the rubber cover, starting at the top.
2. Lift the transmitter up out of the rubber cover.

#### Replace the rubber cover

1. Place the transmitter in the rubber cover, starting at the bottom.
2. Put the rubber cover back on the transmitter.

# STANDARD SETTINGS

## DEFAULT STATE

- discontinuous radiotransmission
- no on/off function

The system will start transmitting as soon as the batteries are inserted, the stop button is pulled out and a transmitter button is pressed. Radio transmission will end when no transmitter button is being pressed.

## START THE TRANSMITTER

1. Pull out the stop button.  
The transmitter transmits when a transmitter button is pressed.

## TURN THE TRANSMITTER OFF

1. Press the stop button.  
NOTE! When the transmitter is active and the stop button is pressed, all relays go off.

## REGISTER THE TRANSMITTER IN THE RECEIVER

1-8 transmitters can be registered in the receiver.

1. Press the receiver Function button until red LED 7 lights up.
2. Press the receiver Select button until LEDs 1-5 light.
3. Press transmitter button 1, 1 step down, until LEDs 1-10 flash 3 times before going out.

## ERASE ALL TRANSMITTERS FROM THE RECEIVER

1. Press the Function button until LED 7 lights.
2. Press the Select button until red LED 1-5 light. Keep pressed until LED 7 and the relay LEDs 1-5 go out.

NOTE! If red LED 7 flashes slowly, one or several transmitters are still registered in the receiver.

## RELAY SETTINGS FOR OPERATING MODE I

- Transmitter button 1 (1st + 2nd step) activates relay 1
- Transmitter button 2 (1st + 2nd step) activates relay 2
- Transmitter button 3 (1st + 2nd step) activates relay 3
- Transmitter button 4 (1st + 2nd step) activates relay 4
- Transmitter button 5 (1st + 2nd step) activates relay 5

## FCC IC INFORMATION

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.

Toute modification apportée à cet appareil qui ne serait pas approuvée expressément par (applicant name) peut invalider l'habilitation de l'utilisateur à utiliser l'appareil.

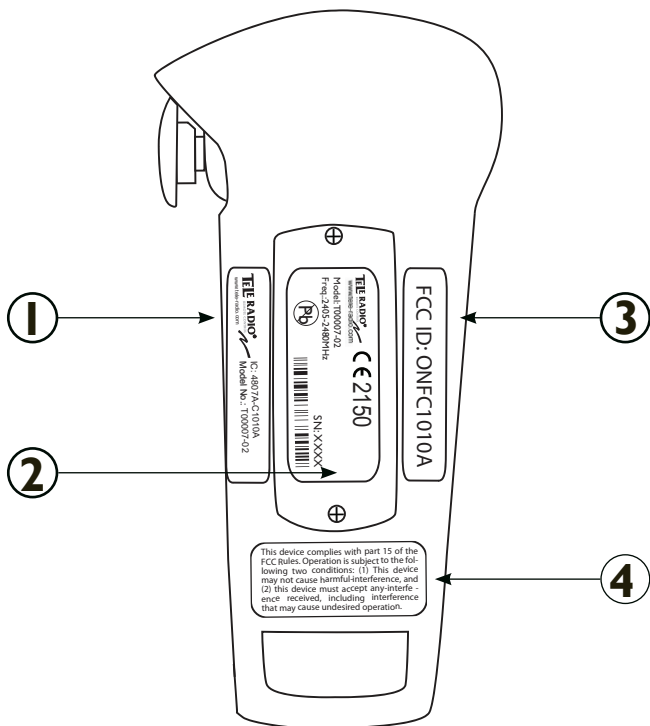
This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

L'appareil est conforme à la réglementation FCC, section 15 et Industrie Canada RSS standard exempts de licence (s). Son utilisation est soumise à deux conditions :

- (1) L'appareil ne doit pas provoquer d'interférences nuisibles, et
- (2) L'appareil doit supporter les interférences reçues, y compris les interférences empêchant son fonctionnement correct.

# TRANSMITTER LABEL PLACEMENT



1. IC ID label
2. CE label

3. FCC ID label
4. FCC information label

## 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.



## DISPOSAL OF BATTERIES AND ELECTRONICS

Improperly disposed electronics may harm public health and the environment. Batteries and electronic waste may contain toxic heavy metals. If thrown away in the trash, the toxic compounds can leach into soil and water, pollute lakes and streams, making them unfit for drinking, swimming, fishing, and wildlife. Contact your local government's recycling or solid waste department for more information on proper disposal of electronics in your region.

## 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 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 strives to restrict or eliminate substances and materials that pose an environmental, health or safety risk.



## GUARANTEE, SERVICE, REPAIRS AND MAINTENANCE

The Tele Radio products are covered by a guarantee against material, construction and manufacturing faults. During the guarantee period, Tele Radio may replace the product or faulty parts. Work under guarantee must be carried out by Tele Radio or by an authorized service centre specified by Tele Radio. This is not covered by the guarantee: 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. Repairs and maintenance must be carried out by qualified personnel. Use spare parts from Tele Radio only. Contact your representative or Helpdesk 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. Never use cleaning solutions or high-pressure water.

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