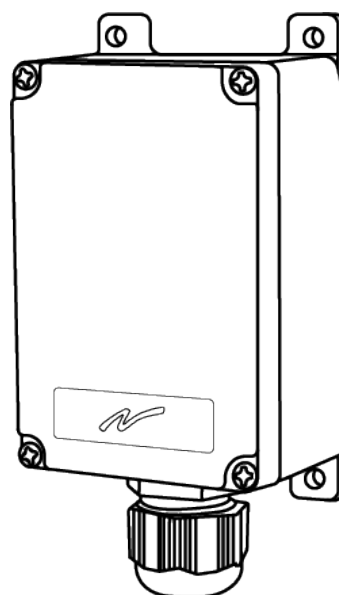
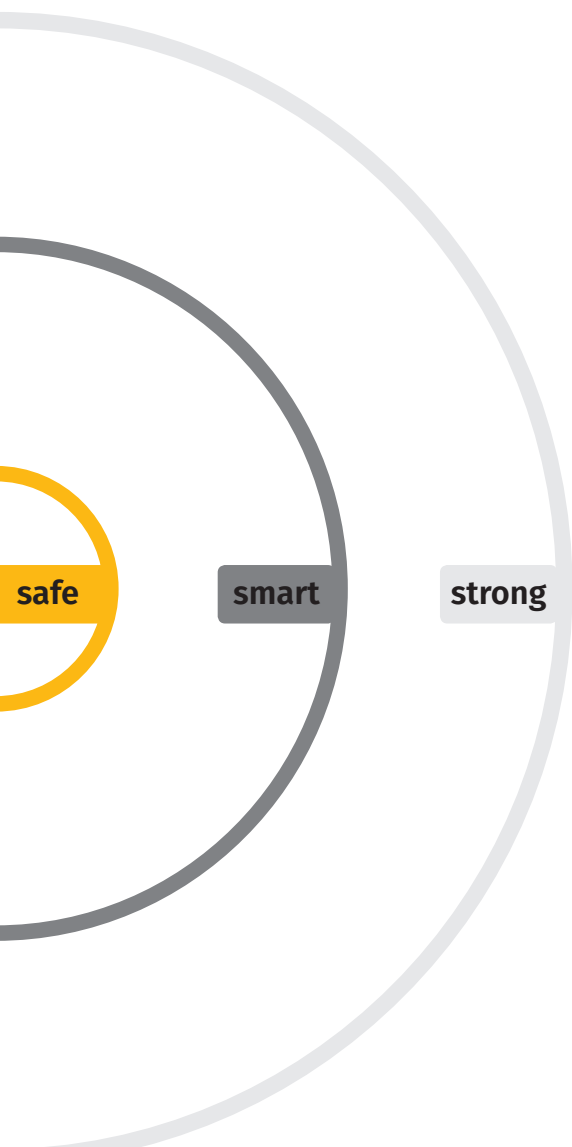


# END USER INSTRUCTIONS

*Receiver: R17-01*



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**IMPORTANT! This document is intended for R17 receivers with software version SW0014-21v08 or higher.**

For receivers with software version SW0014-21v07 or lower, please refer to the installation instructions IM-PN-RX104-A04-EN.

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## CHAPTER 1: INTRODUCTION

### Thank you for using a Tele Radio AB product



**READ ALL INSTRUCTIONS AND WARNINGS CAREFULLY BEFORE OPERATING THE PRODUCTS.**

These End user instructions have been published by Tele Radio AB and are not subject to any guarantees. The End user instructions may be withdrawn or revised by Tele Radio AB at any time and without further notice. Corrections and updates will be added to the latest version of the manual. Always download the End user instructions from our website, [www.tele-radio.com](http://www.tele-radio.com), for the latest available version. Keep the safety instructions for future reference.

**IMPORTANT! These instructions are intended for end users. The instructions can be printed and handed to end user.**

Tele Radio AB remote controls are often built into wider applications. This documentation is not intended to replace the determination of suitability or reliability of the product for specific user applications and should not be used for this purpose. It is the responsibility of any such users or integrators to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use. Tele Radio AB shall not be responsible or liable for misuse of the information contained herein.

Always refer to the applicable local regulations for installation and safety requirements relating to cranes, hoists, material handling applications, lifting equipment, industrial machinery, and/or mobile hydraulic applications using Tele Radio AB products, e.g.:

- applicable local and industrial standards and requirements,
- applicable occupational health and safety regulations,
- applicable safety rules and procedures for the factory where the equipment is being used,
- user and safety manuals or instructions of the manufacturer of the equipment where Tele Radio AB remote control systems are installed.

Tele Radio AB End user instructions do not include or address the specific instructions and safety warnings of the end product manufacturer.

Tele Radio AB products are covered by a warranty against material, construction, or manufacturing faults. See "Chapter 7: Warranty, service, repairs, and maintenance".

## 1.1 About this document

Before installing or operating the product, read the corresponding documentation carefully.

Tele Radio AB's product range is composed of transmitters, receivers, and accessories intended for use together as a system.

These End user instructions cover general safety issues, main technical specifications, and standard operating instructions. Images shown in this document are for illustrative purposes only.

Please report any error or omission in this document, as well as any improvement or amendment suggestion to [td@tele-radio.com](mailto:td@tele-radio.com).

### 1.1.1 COPYRIGHT

Information in this document is subject to change without notice. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, photographic, mechanical (including photocopying), recording or otherwise for any purpose other than the purchaser's personal use without the written permission of Tele Radio AB.

### 1.1.2 TERM AND SYMBOL DEFINITIONS

The capitalized terms and symbol used herein shall have the following meaning:

- **WARNING:** indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION:** indicates a hazardous situation which, if not avoided, will result in minor or moderate injury.
- **IMPORTANT:** is used for information that requires special consideration.
- **NOTE:** is used to address practices not related to physical injury.



This symbol is used to call attention to safety messages that would be assigned the signal words "WARNING" or "CAUTION".

## **1.2 About R17 receiver**

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.

R17 receivers have simplex communication with support for duplex and can work in either discontinuous or continuous mode.

## CHAPTER 2: SAFETY

### 2.1 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 End user instructions 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

#### 2.1.1 OPERATION



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



**This equipment is not suitable for use in locations where children are likely to be present.**



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



- **Always follow operating and maintenance instructions as well as all applicable safety procedures and requirements.**
- **Do not open the receiver encapsulation unless you are qualified.**
- **You must satisfy the age requirements in your country for operating the equipment.**
- **It is strictly prohibited to operate the equipment under the influence of drugs, alcohol and/or medications.**
- **Always test the transmitter stop button before operating it. Press the stop button then twist and pull it out. 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.**

### 2.1.2 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 End user instructions from our website, [www.tele-radio.com](http://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.**
  - **Do not try to open the encapsulation.**
  - **Always contact your representative for service and maintenance work on the product.**



- 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 every day. If you use the product although the encapsulation or foil is damaged, moisture can cause serious damage to the electronics.

## CHAPTER 3: TECHNICAL DATA

### 3.1 Receiver specifications

Input power	7–32 V DC
Frequency band	2405–2480 MHz
Frequency management	Direct Sequence Spread Spectrum (DSSS)
Number of channels	16 (channel 11–26)
Radio communication	Simplex
Max. number of registered transmitters	8
Number of transistor outputs*	4
Number of digital inputs	8
IP code	IP65
Dimensions	96 x 54 x 38 mm / 3.8 x 2 x 1.5 in
Weight	Max. 200 g / 0.44 lbs
Operating temperature	-20...+55 °C / -4...+130 °F
Antenna	Internal antenna

\*Maximum continuous current for a transistor is 3 A (at 55 °C).

Total maximum continuous current for the transistors is 5 A (at 55 °C)

Peak current (maximum 500 ms) for a transistor is 8 A (at 55 °C).

Peak current (maximum 100 ms) for a transistor is 10 A (at 55 °C).

### 3.2 Current consumption

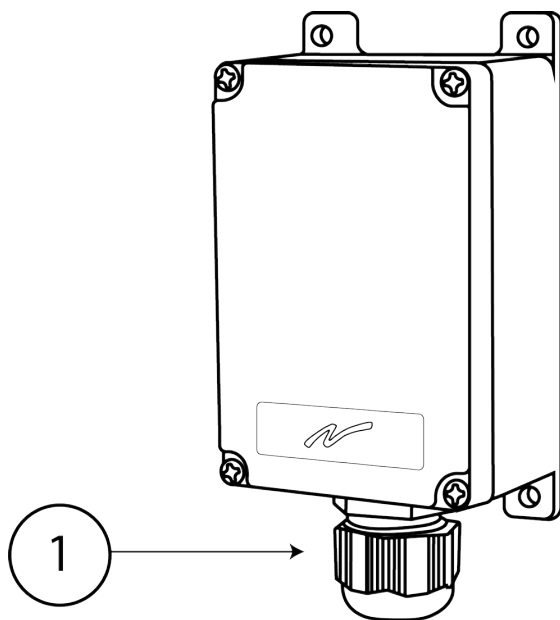
Input power	Typical*
12 V DC	40 mA
24 V DC	40 mA

\*Receiver powered, no loads added.

## CHAPTER 4: PRODUCT GENERAL DESCRIPTION

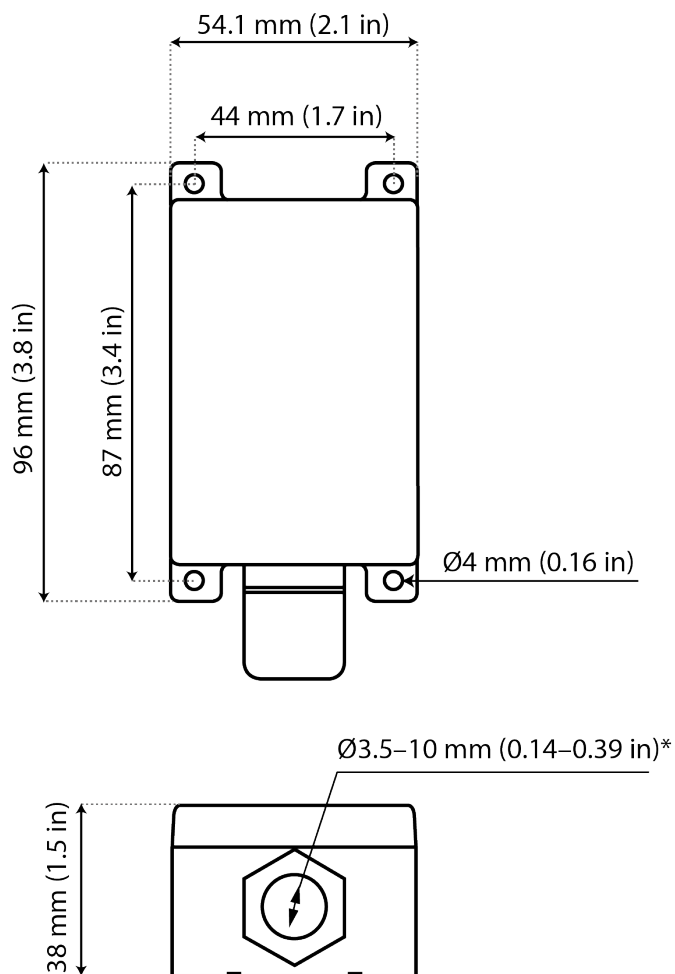
The pictures shown in this chapter are for illustrative purposes only.

### 4.1 Receiver description



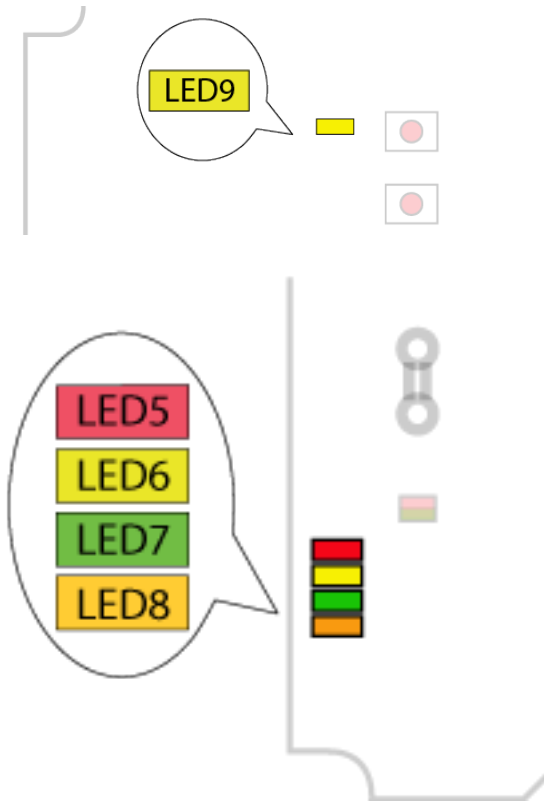
1. Power cable gland (M12x1.5)

## 4.2 Mechanical installation



NOTE: For mounting on a wall or equipment, use 4 M5x30 mm screws or equivalent fastening method.

## CHAPTER 5: STATUS AND ERROR INDICATIONS



### 5.1 Function LEDs indication in normal operation

LED (s)	Color	Off	On	Flashing	Indicates
9	yellow	○			No power to the receiver
			●		Receiver is powered up
5	red	○			No transmitter is registered.
			●	Single flash	One or more transmitters are registered.. No radio link.
			●	Double flash	One or more transmitters are registered and logged in. No radio link.
			●	Solid	Radio link established.
6	yellow		●		Receiving a radio packet from a transmitter other than a Panther.

LED (s)	Color	Off	On	Flashing	Indicates
6 7	yellow green		● ●		Receiving a radio packet from a transmitter set to a different radio mode (discontinuous or continuous) than the receiver.
6 8	yellow orange		● ●		Receiving a radio packet from a transmitter that is not registered.
7	green		●		Receiving a radio packet, low signal (RSSI).
8	orange		●		Receiving a radio packet, configuration ID not accepted.
7 8	green orange		● ●		Receiving a radio packet, custom ID not accepted.
6 7 8	yellow green orange		● ● ●		<p>1. Receiving a radio packet from a registered transmitter. The receiver is already controlled by another registered transmitter.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>NOTE: "Radio link" must be activated in the receiver.</p> </div> <p>2. Load select mode is activated. . Incorrect Load is selected on the transmitter.</p>
5 6 7 8	red yellow green orange		● ● ● ●		TRABUS mode activated (PC communication).

## CHAPTER 6: OPERATION

### 6.1 General information

To control a receiver, the transmitter must be registered and logged in to the receiver. If another transmitter is already logged in to the receiver, it must be logged out before a different transmitter can be logged in.

More than one transmitter can be registered in the receiver, but only one transmitter can be logged in at a time.

NOTE: If more than one transmitter is registered in the same receiver, it is recommended to select the same frequency channel on all transmitters.

### 6.2 Radio mode

The radio mode is determined by the selected **Operating mode**.

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

Some settings can only be selected when the products are transmitting continuously. These settings are indicated with the note "Only for continuous radio mode."

### 6.3 Login/logout function

NOTE: Only for **continuous** radio mode.

**For this receiver, the login/logout function is deactivated by default.**

Logging out means stopping the communication between the transmitter and the receiver, and freeing the receiver for another registered transmitter to log in.

## CHAPTER 7: 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.



## CHAPTER 8: REGULATORY INFORMATION

NOTE: Models including additional naming conventions:

Model	Article names	Additional naming conventions
R17	R17-01	R00017-01, R17-1, PN-R17-1, PN-R17-01

### 8.1 Europe

Applies to:

**R17-01**

#### 8.1.1 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](http://www.tele-radio.com).

#### 8.1.2 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.

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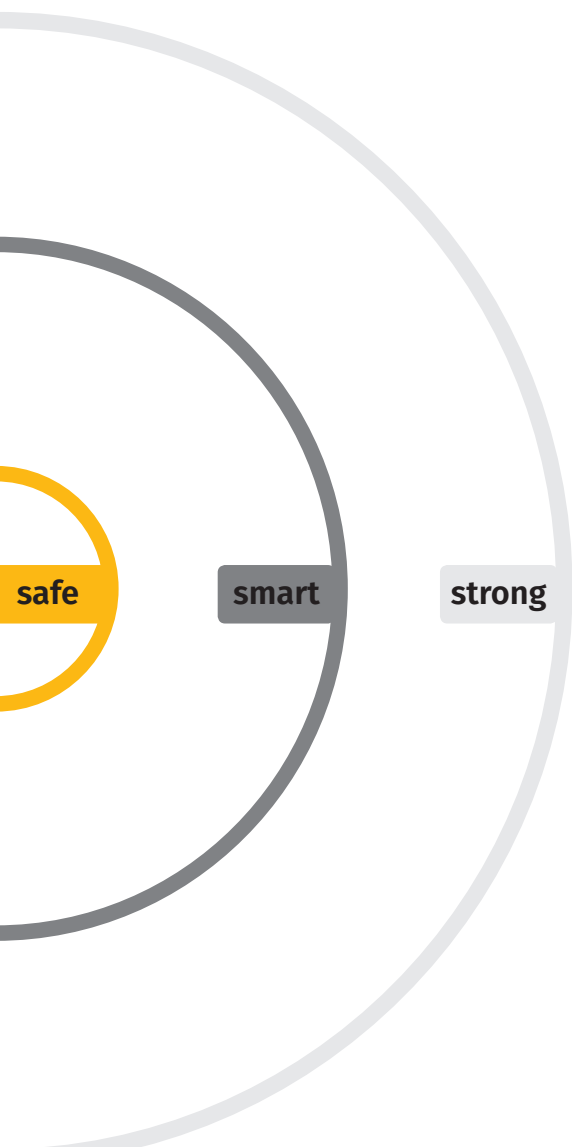
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