

# Tele Radio Tiger

## ADVANCED INSTRUCTIONS

### FOR 10-BUTTONS TRANSMITTER

XAPP LIFT RELAY SETTINGS



ENGLISH (ORIGINAL)

FOR RX1-A, RX2-A, RX3-A, TX1-A

ARTICLE CODE: TG-RI-I-0000, TG-RI-II-0000, TG-RI-6-0000, TG-T3-4-0000

# Thank you for purchasing a Tele Radio product

RX1-A, RX2-A, RX3-A + TX1-A

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

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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. A separate end user instruction can be downloaded from our website.

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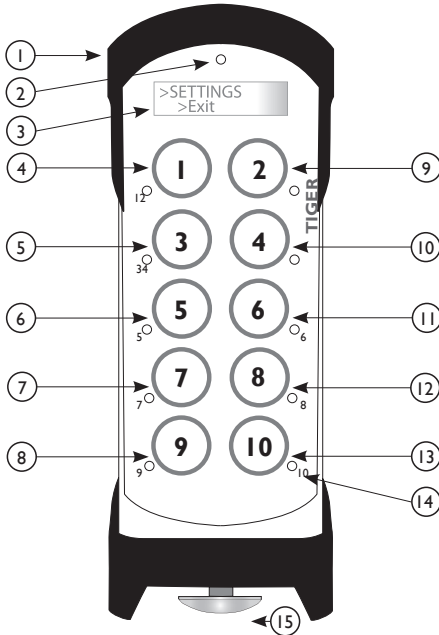
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## **IMPORTANT!**

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

# GENERAL INFORMATION ABOUT THE TRANSMITTER



- |                 |                           |                            |
|-----------------|---------------------------|----------------------------|
| 1. Rubber cover | 7. Button 7-Safe button   | 13. Button 10-Start button |
| 2. Top LED      | 8. Button 9-Start button  | 14. LEDs 1-10              |
| 3. Display      | 9. Button 2               | 15. STOP button            |
| 4. Button 1     | 10. Button 4              |                            |
| 5. Button 3     | 11. Button 6              |                            |
| 6. Button 5     | 12. Button 8- Safe button |                            |

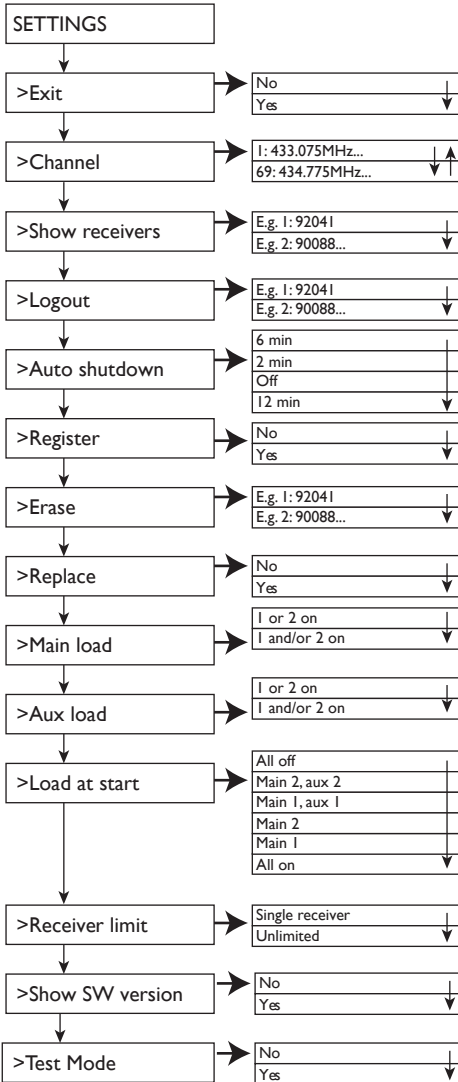
## TECHNICAL DATA

DEGREE OF PROTECTION:	IP 65
OPERATING FREQUENCY:	433.075-434.775 MHz
CHANNELS:	69
SIZE:	200 x 70 x 35 mm./ 7.9 x 2.8 x 1.4 in.
WEIGHT:	400 g./ 14.1 oz.
BATTERY:	1 external, rechargeable battery (li-ion)

### 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.

# THE XAPP LIFT TRANSMITTER MENU



## HOW TO NAVIGATE IN THE TRANSMITTER MENU

- TO MOVE UP AND DOWN: Press button 1 (down) or 2 (up)
- TO SELECT: Press button 9
- TO GO BACK: Press button 3
- TO EXIT: Press button 10

## ENABLE MORE THAN ONE RECEIVER

Default= 1 receiver (single). The period of time between starting and stopping of the transmitter is defined as a session. You can learn more about sessions in the Basic installation instruction. The transmitter can control 1-8 receivers during the same session. Each receiver can have 1-2 main loads and/ or 1-2 aux loads enabled. If you have set the system to a single receiver, you can only control 1 receiver per session. In such a case, you can register more than one receiver in your transmitter, but you can not control more than one receiver at a time or during the same session.

1. Pull out the STOP button.
2. Press button 10. Keep pressed.
3. Press the STOP button.
4. Select [Receiver limit] by pressing button 9.
5. Select by pressing button 9:
  - [Unlimited]
  - [Single receiver]

## SELECT WHAT RECEIVER(S) TO BE ACTIVE DURING A SESSION

You can learn more about sessions in the Basic installation instruction.

1. Pull out the STOP button.
2. Press a button that lights up the corresponding LED on the transmitter. Repeat if you want to control more than one receiver. This receiver(s) is now in control during the current session. The next time that you start up the transmitter, you have to make a new choice of receivers.
3. Press the start buttons 9 + 10 to start operating the selected receiver(s).

## SELECT WHAT RECEIVER(S) TO BE SELECTED BY DEFAULT

It's possible to preset what receiver(s) to control at start up. To set one or more receivers as default at start up:

1. Contact your representative.

## ENABLE MAIN LOAD AND/OR AUX LOAD

For every registered receiver, you can select what main loads or aux loads that you want to enable controlling of, i.e. this is where you enable 1 or 2 main loads + 1 or 2 aux loads. Default= 1 and/or 2 on.

1. Pull out the STOP button.
2. Press button 10. Keep pressed.
3. Press the STOP button.
4. Select [Main load] or [Aux load] by pressing button 9.
5. Select by pressing button 9:
  - 1 or 2 on
  - 1 and/or 2 on

## ACTIVATE MAIN LOAD AND/OR AUX LOAD AT START UP

When you have enabled main load and/or aux load, you may want to select what main loads and/or aux loads that you want to activate at start up (until the setting is changed). Default= All off. If set on [All off], you have to press a transmitter button to show which receiver that you want to activate before pressing the start buttons 9+10. Learn more about this in the 'Sessions' chapter in the Basic installation instructions.

1. Pull out the STOP button.
2. Press button 10. Keep pressed.
3. Press the STOP button.
4. Select [Load at start] by pressing button 9.
5. Select by pressing button 9:
  - All off
  - Main 2, aux 2
  - Main 1, aux 1
  - Main 2
  - Main 1
  - All on

## OPERATE MAIN LOAD (1 OR 2) IN A SESSION

For Operating mode 1-2. Button 7 toggles main load 1 on or off each time being pressed. Button 8 toggles main load 2 on or off each time being pressed. Both can be selected at the same time, if prepared for.

MAIN LOAD SELECTED	MAIN LED LIT	INDICATION RELAY ACTIVATED
1	1	10
2	2	11
1+2	1+2	10+11
-	-	-

1. Pull out the STOP button.
2. Select a receiver.
3. Press the start buttons 9 + 10 at the same time.
4. Check the Operating Modes schemes. Press button 7 and/ or 8 according to the table above.

The main load 1 LED and/or main load 2 LED are lit when you are controlling the corresponding main load.

## OPERATE AUX LOAD (1 OR 2) IN A SESSION

For Operating mode 1-2. Depending on where you start, button 10 toggles aux 1 and aux 2 on or off in the following order:

PRESS BUTTON 10	AUX 1	AUX 2	INDICATION RELAY ACTIVATED
starts at	OFF	OFF	-
1 time	ON	OFF	27
2 times	OFF	ON	28
3 times	ON	ON	27+28

1. Pull out the STOP button.
2. Select a receiver.
3. Press the start buttons 9 + 10 at the same time.
4. Check the Operating Modes schemes. Press button 10 according to the table above. The aux load 1 LED and/or aux load 2 LED are lit when you are controlling the corresponding aux load.



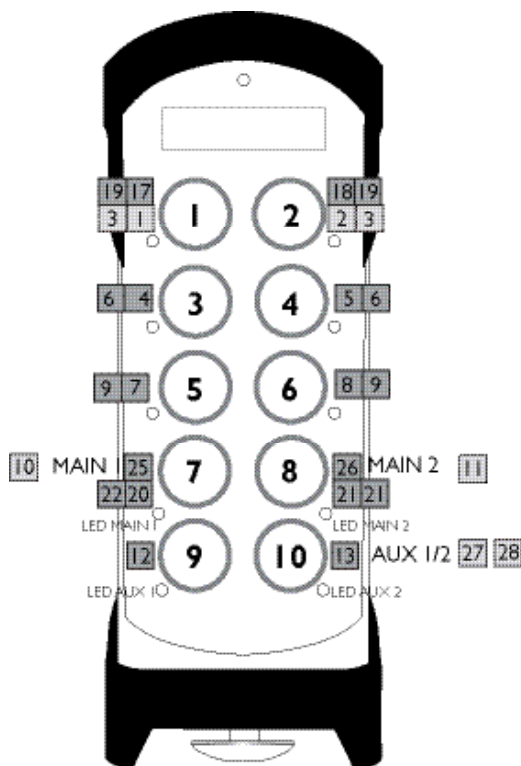
## SELECT OPERATING MODE FOR THE RECEIVER

You can switch Operating Mode in the receiver menu. Operating Mode 1 is default. For the 10-button transmitter, Operating Mode 1 and 2 are available. Operating Mode 3 is for joystick transmitters. Operating Mode 4 is for customized settings. Contact your representative for more information about Operating Mode 4.

1. Enter the receiver menu [SYSTEM SETUP].
2. Press the receiver joystick one step to the right.
3. Enter the submenu [xApp SETUP] and press the receiver joystick [Operating Mode].
4. Press the receiver joystick upwards to scroll through the list. Select Operating Mode 1 or 2.

Learn more about Operating Modes on the next pages.

## OPERATING MODE I



MAIN 1/ MAIN 2= toggles MAIN load 1 or MAIN load 2 on/ off (LEDs MAIN= light when MAIN load 1 or MAIN load 2 is on).AUX= toggles AUX load 1 and AUX load 2 on/ off (LEDs AUX= light when AUX load 1 or 2 is on).

- Common high-speed
- 2 main loads can be selected
- 2 aux loads can be selected
- Aux can activate help lift in UP and DOWN directions
- The transmitter buzzer button 9 activates relay 12

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
RELAYS	1	2	3	4	5	6	7	8	9	10	11	12	13				17	18	19	20	21	22				25	26	27	28

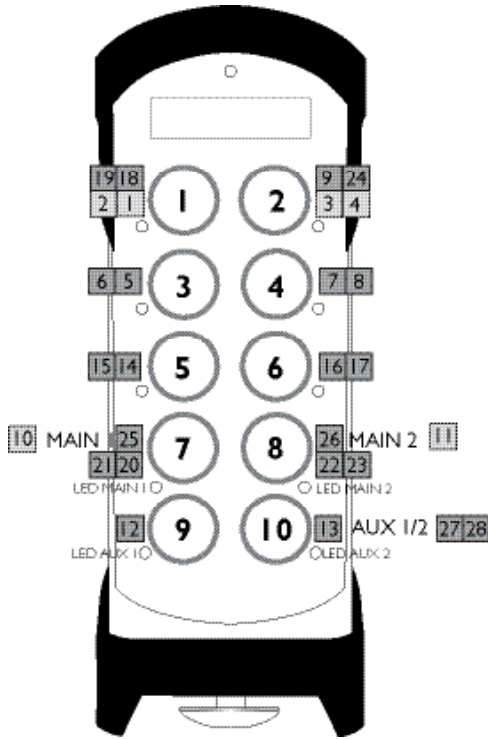
### NOTE!

Relay 1, 2 and 3: only activated when relay 10=ON or relay 11=ON

Relay 17, 18 and 19: only activated when relay 27=ON or relay 28=ON

Relay 4-12, 20-22, 25-28: only activated in the selected receiver(s)

# OPERATING MODE 2



MAIN 1/ MAIN 2= toggles MAIN load 1 or MAIN load 2 on/ off (LEDs MAIN= light when MAIN load 1 or MAIN load 2 is on).AUX= toggles AUX load 1 and AUX load 2 on/ off (LEDs AUX= light when AUX load 1 or 2 is on).

- Separate high-speed
- 2 main loads can be selected
- 2 aux loads can be selected
- Aux can activate help lift in UP and DOWN directions
- The transmitter buzzer button 9 activates relay 12

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
RELAYS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

**NOTE!**  
 Relay 1, 2, 3 and 4: only activated when relay 10=ON or relay 11=ON  
 Relay 9, 18, 19 and 24: only activated when relay 27=ON or relay 28=ON  
 Relay 5-8, 10-17, 20-23 and 25-28: only activated in the selected receiver(s)

## FIELDBUS RELAY SETTINGS

All relays are controlled by the Tele Radio Tiger system as default. If a fieldbus is mounted, e.g. CANopen, the function relays can be controlled by the fieldbus. This setting is made in [Relay control] in the receiver menu. See the Basic installation instruction and the Fieldbus installation instructions for more information about fieldbus settings.

## XAPP RELAY SETTINGS

### MOMENTARY OR TOGGLING/ LATCHING RELAY FUNCTIONALITY

All relays have a momentary functionality as default. The following relay settings are made in the receiver menu under the submenu [xApp SETUP].

#### MOMENTARY

The relay is only activated when a button is being pressed. When the button is released, the relay is deactivated.

#### TOGGLING/ LATCHING

The relay will stay activated until the button is being pressed again.

### CHANGE THE RELAY SETTINGS

You can switch between momentary and toggling/ latching relay functionality in the receiver menu. The menu displays a list of all relays, but for safety reasons only relay 13, 25 + 26 can be assigned a toggling/latching functionality.

1. Enter the receiver menu [SYSTEM SETUP].
2. Press the receiver joystick one step to the right.
3. Enter the submenu [xApp SETUP]
4. Press the receiver joystick 1 step downwards for making relays [Latching].
5. Press the receiver joystick upwards to scroll through the relay list. If you want a relay to be latching, press the receiver joystick. If an 'L' is shown next to the relay, the relay now has a latching functionality. If no 'L' is shown, you may not be permitted to assign this relay a latching functionality for safety reasons. If you want to make a relay momentary, press the receiver joystick to remove the 'L' from the relay in the list.

# INTERLOCKING RELAY FUNCTIONALITY

## SET BLOCKING

The standard relays and the additional relays, that are being controlled by buttons 1-6 are interlocked. This means that UP- DOWN, LEFT-RIGHT or BACK-FORTH can not activate at the same time. The relays involved will be blocked if you try to activate them at the same time. The buttons 7-10 can not be interlocked.

## PRIORITIZATION

You can prioritize between certain relays in the receiver menu.

E.g. for Operating mode 2: 01 can be set to 'A' for no priority. If set to 'B', relay 2 gets priority over relay 1 and relay 4 gets priority over relay 3. The table shows what prioritizations that can be made in the receiver menu:

### For Operating mode 1:

01A	No priority between 3 and 1. No priority between 3 and 2.
01B	Relay 3 has priority over 1. Relay 3 has priority over 2.
02A	No priority between 6 and 4. No priority between 6 and 5.
02B	Relay 6 has priority over 4. Relay 6 has priority over 5.
03A	No priority between 15 and 14. No priority between 17 and 16.
03B	Relay 15 has priority over 14. Relay 17 has priority over 16.
04A	No priority between 19 and 18. No priority between 24 and 9.
04B	Relay 19 has priority over 18. Relay 24 has priority over 9.

### For Operating mode 2:

01A=	No priority between 2 and 1. No priority between 4 and 3.
01B	Relay 2 has priority over 1. Relay 4 has priority over 3.
02A	No priority between 6 and 5. No priority between 8 and 7.
02B	Relay 6 has priority over 5. Relay 8 has priority over 7.
03A	No priority between 9 and 7. No priority between 9 and 8.
03B	Relay 9 has priority over 7. Relay 9 has priority over 8.
04A	No priority between 19 and 17. No priority between 19 and 18.

## DIGITAL INPUTS

The digital inputs on the receiver can be connected to ON/OFF switches, that send high/ low signals to the receiver. The transmitter can be set to indicate the status of the digital inputs by its LEDs. The indications may also be inverted. Contact your representative for more information.

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