

Rangemaster Skeet Smart Receiver User manual



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This unit has been carefully produced for / by:

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1. DESCRIPTION OF THE UNIT

4 channel digital **Smart Receiver for Skeet** is a device for receiving radio commands, controlling traps for releasing clay targets for skeet only and monitoring traps state

1.1 FEATURES

- 4 channel digital receiver
- Easy setup
- Smart menu
- Rigid antenna
- Up to 500m range with Rangemaster transmitters (LoS)
- Operational temperature: -30°C to +70°C
- Power (input): via trap or car battery, optional external power supply
- Polarity fail-safe
- Transmission-addresses settable: 32
- Possibility to run up to 32 ranges without any interference
- Heavy duty relay built in (dry contact)
- Release pull time adjustable
- Targets counter
- 16x2 LCD display
- 433 MHz

1.2 DISCIPLINES

Skeet only

1.3 TECHNICAL DATA

Power Input:	via car battery or external power supply
Input/ supply voltage:	12V DC
Operation temperature:	-30°C to +70°C
Dimensions:	Height: 23cm, width 14.5: cm, depth: 8.5cm
Weight:	Around 900 gr
Output:	Dry contact
Fuse	5x20mm, 0.4A
Display:	16x2 LCD display with English menu, with back-light
Relays:	1 for releasing high house – dry contact 1 for releasing low house – dry contact 1 for switching on/off high house lamp – dry contact

1 for switching on/off low house lamp – dry contact
1 for switching on/off recocking engines for Nasta traps (if 400V Nasta trap is used)

Relay rating: Max.230V-0.5A AC or 24V-1.0A DC

Frequency: 433 MHz +/-2MHz

1.4 OPTIONAL ACCESSORIES

Remote controls/Transmitters

Digital remote control "IQ-SERIES" for Skeet

[TXIQ5SK](#)

TXIQ5SK remote control for Skeet



1.5 CONTENTS OF SHIPMENT

- 230V/12V DC power supply with 3 pins plug
- 1 receiver
- 1 external antenna

Suitable external power supply has to be ordered separately!

2. CONNECTING

The smart receiver is connected to the traps and signal lamps to the corresponding terminals:

Relay 1 : releasing high house

Relay 2 : releasing low house – dry contact

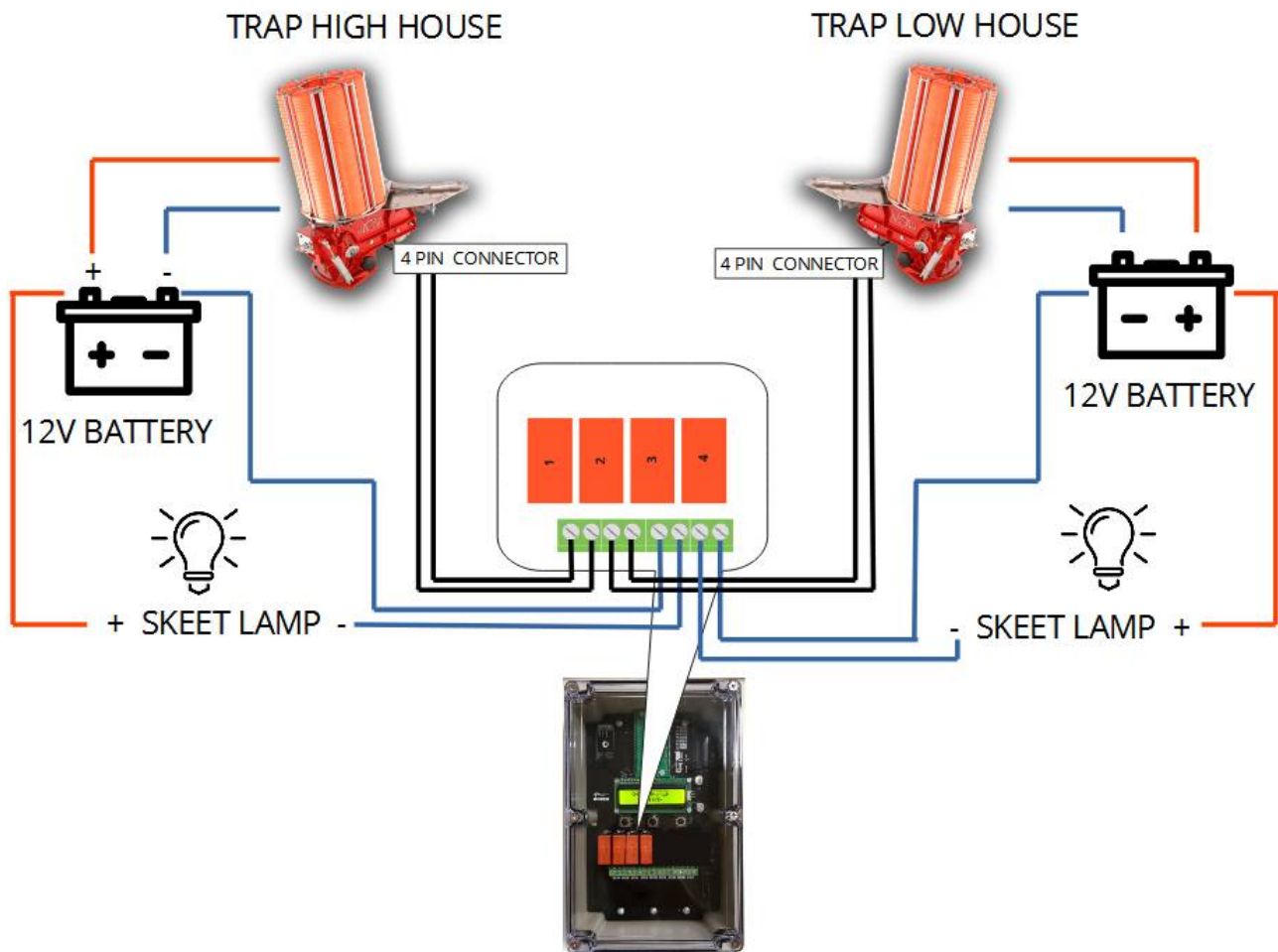
Relay 3 : switching on/off high house lamp – dry contact

Relay 4 : switching on/off low house lamp – dry contact

Relay 5*: switching on/off recocking engines for Nasta Traps (if 400V Nasta trap is used)

Skeet Receiver wires connecting scheme:





IMPORTANT!

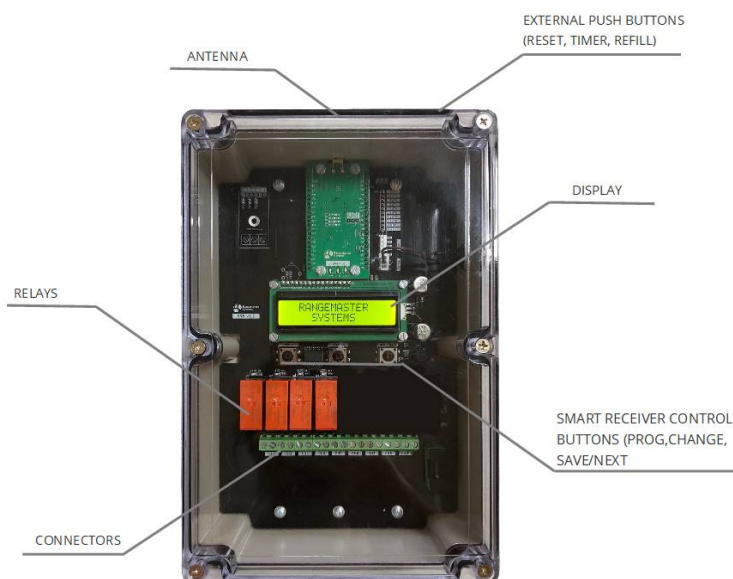
THE RELAY IS USED FOR SWITCHING SIGNALS ONLY (DRY CONTACT) AND MUST NOT SWITCH HEAVY LOADS (E.G. A SOLENOID)!

IMPORTANT!

YOU HAVE TO USE AN EXTERNAL CIRCUIT BREAKER TO SWITCH THE NASTA RECOCKING ENGINES – NEVER CONNECT DIRECTLY TO INTERNAL RELAY!

NOTE: Optimum height of the Rangemaster Smart Receiver is **0.7 m above the ground**, but **not below 0.5 m**.

3. DESCRIPTION OF THE RECEIVER & EXTERNAL PUSH BUTTONS



External push buttons (optional):

External button	Functionality
Timer	Switches on/switches off timer
Refill	Sets both the traps to refilled. If you use the countdown of clays, the system will stop releasing clays when a trap has 0 clays inside its magazine. You have to correctly set the number of clays per trap when filled to maximum and enable this feature

4. SETTINGS

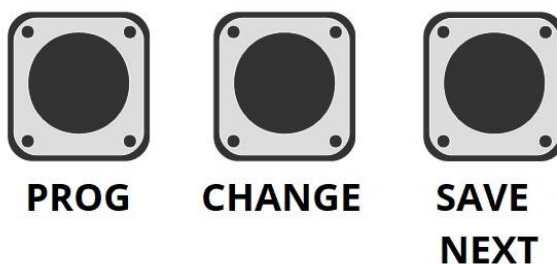
After connecting the **Skeet Smart Receiver** to the trap, the following information will be displayed:

Ψ	Ch:01	H:64
	Timer:ON	L:38

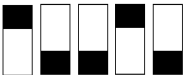
Ψ	Signal level
Ch:	Name/number of the layout
Timer:	ON – timer with a random delay from 0-3 sec is active OFF – timer is off and targets are released without delay
H:	Number of targets released from the high house after the last press on REFILL button (black button placed on the enclosure which resets the target counter to zero)
L:	Number of targets released from the low house after the last press on REFILL button

RANGEMASTER SMART RECEIVER CONTROL BUTTONS

(to enter the administrative menu and configure parameters;
placed under the display)



PROG	Button to enter the menu and leave the menu
CHANGE	Changing the value (higher)
SAVE/NEXT	Save changes and go to the next mode

No	MENU MODES	DESCRIPTION
1	SERIAL NUMBER	Displays the unique serial number in format FF-FF-FF-FF
2	TOTAL THROWN HI	Counter which shows total number of targets thrown
3	HI TRAP MAGAZINE	Magazine capacity for the high house trap Min. value: 50 Max. value: 1.000 To adjust the value use center CHANGE button
4	TOTAL THROWN LOW	Counter which shows total number of targets thrown
5	LOW TRAP MAGAZINE	Magazine capacity for the low house trap Min. value: 50 Max. value: 1.000 To adjust the value use center CHANGE button
6	SELECT PROTOCOL	Basic (recommended) Pro : you encrypt the radio data with a special key in format FFFF; this key also has to be set on the Transmitter (you will need a TXIQ SKEET Pro)
7	CHANNEL	Chose channel from 00 to 31 (32 in total). Example: CHANNEL 09 There is also arrangement of DIP switches for setting the corresponding address for the remote control  To change the name use CHANGE button. After selecting to confirm, click SAVE/NEXT .
8	STOP IF EMPTY	En - when the trap's magazine is empty, the receiver will stop accepting commands to release targets. Dis - the fullness of the trap's magazine is not taken into account
9	NO BIRD NUMBER	0..10 additional targets given per payment (swipe by RFID card) in pay mode
10	TIMER R. CONTROL	ENABLED – switches on possibility to switch on/off timer via remote control DISABLED – switches on possibility to switch on/off timer via

No	MENU MODES	DESCRIPTION
		TIMER button on receiver. If the timer is turned off using TIMER button, the receiver does not respond to the commands from the remote control, even if this feature is set to Enabled in the admin menu
11	RELAY PULSE TIME	Determines, how long the relays for releasing the clays are in on state Min value: 0,1 seconds Max value: 1,0 seconds
12	TIME TO RECOCK	The time required to fully recharge/cock the trap. Minimum: 0.5 seconds, maximum: 3.0 seconds. Determines, how long the relays for switching on the Nasta trap is in on state. During this time elapsing, you cannot release any trap. This timer starts, when the relay pulse time expires
13	FACTORY SETTINGS CHANGE TO RESET	Change will reset unit to factory default values, which are: <i>High house max. Magazine fill: 400 clays</i> <i>Low house max. Magazine fill: 400 clays</i> <i>Protocol: Basic</i> <i>Channel: 0</i> <i>No Bird number: 0</i> <i>Timer R. Control: Enabled</i> <i>Relay pulse time: 0,5 sec</i> <i>Time to recock: 2,0 seconds</i> To reset press Change button

5. TROUBLESHOOTING

Nº	Problem	Possible reason	Solution
1.	Trap does not respond	1. Trap is not connected to power 2. Wrong channel is set 3. Trap magazine is empty	1. Connect the trap to network. 2. Set receiver and transmitter to the same channel. 3. Load the trap magazine and press REFILL button.
2.	Power indicator is off	1. Receiver is not connected to power 2. Fuse is defective	1. Check receiver connection (make sure it is not loose) 2. Replace the fuse.
3.	Poor signal level	1. Antenna is defective 2. Other device interference	1. Replace the antenna. 2. Change channel for both receiver and transmitter. Both devices should be set to one channel.

6. LIMITED WARRANTY

Rangemaster Systems gives a limited warranty on this products against defects in material or workmanship for time of 12 months.

This period starts upon receipt of the product.

Rangemaster System will not be liable for loss of data or loss of profit or turnover due to a defect.

The warranty only includes repair or replacement of defect components, which failed during daily use. "Daily use" has to be read as: Use in accordance to specifications and in intended use.

General information & warranty exclusions: Damages due to water, moisture, vandalism, lightening, surges over power line or power supply, usage outside of specifications, dropping the product, excessive heat or cold (both for operation and storage) damages because of dropping the product, unnecessary force, damages because of empty or discharged batteries or accumulators are warranty exclusions and do not entitle you for a free of charge repair or replacement.

In case of chip card readers with contacts are built in the product. Items or dirt inside the reader are warranty exclusions.

In case of touch screens are built in the product: Damages due to improper use (using something else than your finger) causing scratches or punctures on the screen or on the touch surface will not be covered with warranty.

Please ask for a RMA number by sending an email to support@rangemaster.at

Add invoice number, date of invoice and serial number of product.

Also add a detailed description of errors.

Return unit for repair to:

Maxima WarenhandelsGmbH

© Rangemaster Systems – Ext. Storage

8082 Weissenbach 9

Austria/Europe

Show your RMA number of the box. Send us a tracking link after returning the product to us.

7. RMA FORM

To:

Maxima WarenhandelsGmbH
© Rangemaster Systems – Ext. Storage
8082 Weissenbach 9
Austria/Europe

RMA: _____

Date: ____/____/____

Date of purchase	
Supplied by	
Invoice number (Please attach copy of invoice)	
Product serial number	
Description of error	

Please return to:

Name	
Club	
Address 1	
Address 2	
Zip code	
City/Town	
Country	
Phone	
E-Mail	