



RANGEMASTER
SYSTEMS

8 channel digital
Rangemaster **S**mart **R**eceiver
User manual



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1. DESCRIPTION OF THE UNIT

8 channel digital **Smart Receiver 8** is a device for receiving radio commands, controlling traps for releasing clay targets for sporting & compak sporting and monitoring traps state

1.1 FEATURES

- 8 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: 32/256
- Possibility to run up to 32/256 ranges without any interference
- Heavy duty relay built in (dry contact)
- Release pull time adjustable
- Minimum supply voltage settable (standby mode when minimum voltage level is reached)
- Clay magazine fill control
- Targets counter
- 16x2 LCD display
- 315/433/868/915 MHz versions available
- Telemetry

1.2 DISCIPLINES

Sporting and Compak Sporting

1.3 TECHNICAL DATA

Power Input:	Power (input): via trap/car battery, external power supply, polarity fail-safe
Power consumption:	<150mA
Min. supply voltage:	9 VDC
Max. supply voltage:	24VDC
Operation temperature:	-30°C to +70°C
Dimensions:	Height: 23cm, width 14.5: cm, depth: 8.5cm
Weight:	Around 950 gr

Output:	Dry contact
Fuse	0.5A
Display:	16x2 LCD display
Counter:	Available
Frequency:	315/433/868/915 MHz versions available

1.4 OPTIONAL ACCESSORIES

Remote controls/Transmitters

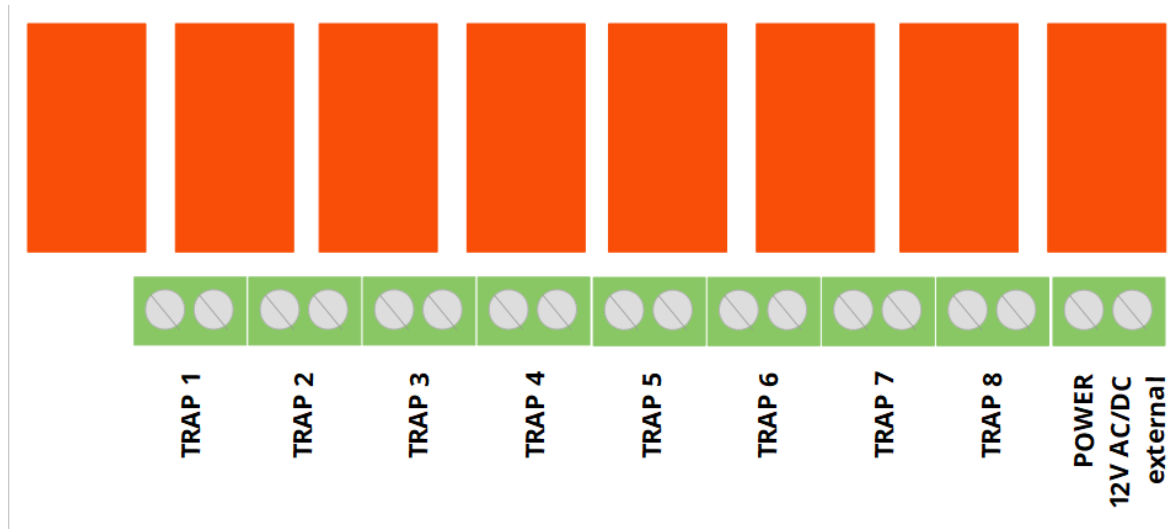
8 Channel digital remote control "IQ-SERIES"	TXIQ8
16 Channel remote control "IQ-SERIES"	TXIQ16
24 Channel remote control "IQ-SERIES"	TXIQ24
16 Channel Sporting Commander with chip card payment incl. Chip card reader and LCD	TXSPO16

Extras for remote range control

Rangemaster X2 sequencer	X2
Rangemaster X3 pro net complete professional range automation system	X3PRO
Base station	RF-Base

2. CONNECTING

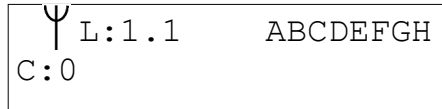
The smart receiver is connected to the traps to the corresponding terminals in the same way as when connecting to a push button



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

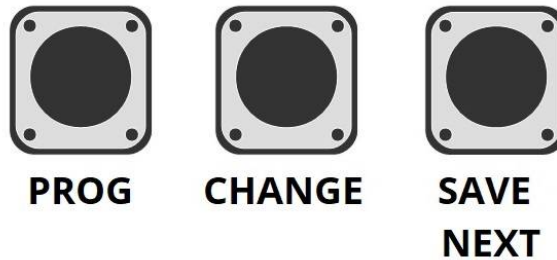
3. SETTINGS

After connecting the **8 channel Smart Receiver** to the trap, the following information will be displayed:


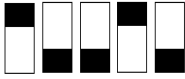


Ψ	Signal level
C:	Number of targets released after the last press on REFILL button (black button placed on the enclosure which resets the target counter to zero)
L:	Name of the layout
ABCDEFGH	Names of the channels. When the trap is recocking and can't be released letter turns small, E.g.: when trap C is recocking - ABcDEFGH

RANGEMASTER SMART RECEIVER CONTROL BUTTONS (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

№	MENU MODES	DESCRIPTION
1	SETTINGS TYPE:	GENERAL – for all 8 channels CH1...CH8 – individually for each channel
GENERAL SETTINGS		
1.1	TOTAL THROWN	Counter which shows total number of targets thrown
1.2	M: CHANNEL/RANGE	<p>Select the type to display name of the range. Options:</p> <ul style="list-style-type: none"> • CHANNEL (for kompak sporting) • RANGE / LAYOUT (for sporting) <p>After selecting a type, go to the next mode to finish setting of the range name using SAVE / NEXT key.</p>
1.3	RANGE/LAYOUT or CHANNEL	<p>1. RANGE/LAYOUT. There are two digits in this type. First digit means Range, second-layout (1.1...1.4 - 8.1....8.4).</p> <p>Example: Range/Layout 1.1 (Layout 1/Receiver 1)</p> <p>There is also arrangement of DIP switches for setting the corresponding address for the remote control</p> <div style="text-align: center;">  </div> <hr/> <p>2. CHANNEL: This type allows to chose any channel from 00 to 31 (32 in total).</p> <p>Example: CHANNEL 09</p> <p>There is also arrangement of DIP switches for setting the corresponding address for the remote control</p> <div style="text-align: center;">  </div> <p>To change the name use CHANGE button. After selecting to confirm, click SAVE/NEXT.</p>

№	MENU MODES	DESCRIPTION
1.4	MULTI ASSIGNMENT	<p>Option which allows to assign more than 1 trap to 1 button. YES – allows multi assignment NO – switches off multi assignment and allows to assign 1 relay to 1 button only.</p> <p>E.g.: If the multi assignment is activated, we can assign traps 1 and 2 to the button A, so when the A button on the remote control is pressed both traps are thrown simultaneously. On the main display if we assign two traps to 1 button, it looks following (e.g. we can assign two traps to A button):</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p style="text-align: center;">L: 1.1 AABCDEFG C: 0</p> </div> <p>But if we have Multi Assignment deactivated but have two times A like on the picture above, only the first A trap will be thrown.</p> <p>Up to 8 traps/relays could be assigned to 1 letter.</p>
1.5	TELEMETRICS	<p>Switches off/on the option of receiving data about the state of the trap to the remote control. When telemetry option is off, the status information (number of targets, voltage) will not be available for transmission. To change the value, use the CHANGE button (YES/NO). To confirm, click SAVE/NEXT.</p> <p>When telemetry is activated the red LED will blink on the PCB above the display</p>
1.6	SERIAL NUMBER	Unique serial device number
1.7	FACTORY SETTINGS CHANGE TO RESET	<p>Resets all settings to factory settings. Press CHANGE button to reset. The following phrase will be shown on display: NEXT TO CONFIRM. To confirm reset press SAVE/NEXT button.</p>

SETTING EACH CHANNEL INDIVIDUALLY (CH1...CH8)		
2.1	LAST THROWN	Number of targets released after the last press on REFILL button on the certain channel
2.2	TOTAL TROWN	Counter which shows total number of targets thrown on the certain channel
2.3	CHX:	Choose the trap name. Maximum number of traps on one layout – 24 . To name the trap chose a letter from A to X . To deactivate the channel use „--“
2.4	RELAY PULSE TIME	The time period at which the relay switches on to release the target. Minimum: 0.1 seconds, maximum: 1.0 seconds. To change the value, use the CHANGE button. After selecting to confirm, click SAVE/NEXT .
2.5	TIME TO COCK	The time required to fully recharge/cock the trap. Minimum: 0.7 seconds, maximum: 3.0 seconds. To change the value, use the CHANGE button. After selecting to confirm, click SAVE/NEXT .
2.6	CLAY CAPACITY	The volume of the magazine: min. 50 targets, max. 1000 targets. To change the value, use the CHANGE button. To confirm, click SAVE/NEXT . When the magazine is fully loaded, it is necessary to press the REFILL button - the external button on the smart receiver enclosure, so the counter of the released targets is reset and the smart receiver is unlocked. This feature is not valid if TELEMETRICS option is switched off.
<p>NOTE: To save all changes made in the settings, go through all modes pressing SAVE/NEXT button until you see the main display on the screen!</p>		

3.1 POSSIBLE CAUSES OF LOCKING TARGET RELEASE

- User entered the menu and changes settings
- Trap is empty when telemetry is on (instead of letters on the main display you will see „-----“)
- Remote locking via Sporting Master remote control or from the Office

4. 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.

5. 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	