

# ACS™ -114R

## PROFESSIONAL WIRELESS DUAL-CHANNEL KEELOQ® CODE HOPPING REMOTE CONTROL SET. INSTRUCTION MANUAL AND TECHNICAL SPECIFICATIONS.

**INTRODUCTION.** The wireless dual-channel multifunctional receiver **ACS-114R**, operating in conjunction with two hand-held push-button transmitters, provides the remote control of any electronic equipment: ELECTRICAL GATES, SLIDING DOORS, ELECTROMAGNETIC LOCKS, AUTOMATIC BARRIERS, ELECTRICAL CURTAINS, LIGHTING FIXTURES, etc.  
The remote control set may be used as a PANIC BUTTON in security systems for creating any type of alarm.

### KEELOQ® CODE HOPPING TECHNOLOGY.

The wireless remote control set **ACS-114R** uses «KEELOQ» highly secure algorithm.  
The combinations of different codes transmitted by remote controls prevent radio scanning and unauthorized access.

### ACS-114R FEATURES.

- **TWO INDEPENDENT CHANNELS.**
- **FIVE OPERATING MODES OF EACH RECEIVER CHANNEL:**
  1. PULSE MODE - 1SECOND
  2. SWITCH ON PERIOD MODE (1 – 300 sec)
  3. SWITCHING MODE (ON/OFF)
  4. HOLD MODE (CONTINUOUS)
  5. PANIC BUTTON MODE (SECURITY)
- Receiving range in open space - up to 500 meters
- KEELOQ® code hopping technology
- Maximum quantity of remote controls learning the receiver – 330 pieces
- Programming the ON/OFF period for the desired time from 1 to 300 sec
- Unauthorized access protection (in "Panic Button" mode)
- Last event memory: 30min (in "Panic Button" mode)
- The alarm comes on when the electric power supply is disconnected (in "Panic Button" mode)

### SETTING THE RECEIVER OPERATING MODES.

Jumpers "SEC-1" and "TGL-1" – for setting the operating modes of the first receiver channel.  
Jumpers "SEC-2" and "TGL-2" – for setting the operating modes of the second receiver channel.

#### 1. «PULSE» MODE» - 1 SECOND (default setting).

SETTING THE OPERATING MODE OF THE FIRST RECEIVER CHANNEL:	SETTING THE OPERATING MODE OF THE SECOND RECEIVER CHANNEL:
Jumper "SEC-1" – is installed. Jumper "TLG-1" – is installed.	Jumper "SEC-2" – is installed. Jumper "TLG-2" – is installed.

Pressing the remote control button (A) activates the relay of the first receiver channel for 1 second.

Pressing the remote control button (B) activates the relay of the second receiver channel for 1 second.

#### 2. «SWITCH ON PERIOD» MODE (1-300 SECOND).

##### PROGRAMMING "SWITCH ON PERIOD" MODE.

SETTING THE OPERATING MODE OF THE FIRST RECEIVER CHANNEL:	SETTING THE OPERATING MODE OF THE SECOND RECEIVER CHANNEL:
Jumper "SEC-1" – is installed. Jumper "TLG-1" – is installed.	Jumper "SEC-2" – is installed. Jumper "TLG-2" – is installed.

a). Press and hold the "Tact switch" button (SW2). The LED will turn off and turn on in 5 seconds. Release the button (SW2).

b). Press and release the remote control button (A) – the relay of the first receiver channel is activated. The LED starts to blink indicating that the receiver has begun to memorize the required time period from 1 to 300 sec.

c). Press and release the same remote control button to finish programming the ON/OFF period for the user-definable time from 1 to 300 sec. The LED will turn ON - "SWITCH ON PERIOD" MODE is programmed.

➤ To change the ON/OFF period in "SWITCH ON PERIOD" MODE, perform steps A to C above.

➤ To program "SWITCH ON PERIOD" MODE for the second receiver channel repeat steps A to C using the remote control button (B).

#### RESET TO FACTORY DEFAULT SETTING («PULSE MODE» - 1 SECOND).

Jumpers "SEC-1" "TGL-1" "SEC-2" "TGL-2" – are installed.

a). Press and hold the "Tact switch" button (SW2). The LED will turn off and turn on in 5 seconds. Release the button (SW2).

b). Press and hold the "Tact switch" button (SW1) during 5 seconds – LED starts to blink and then will be continuously lit. Release the button (SW1) at the same time – the operating mode of the first receiver channel has been reset to its original factory default.

➤ To reset the operating mode of the second receiver channel to default setting perform steps A to B above, but press and hold the "Tact switch" button (SW1) during 10 seconds in Step B.

#### 3. «SWITCHING MODE» (ON/OFF).

SETTING THE OPERATING MODE OF THE FIRST RECEIVER CHANNEL:	SETTING THE OPERATING MODE OF THE SECOND RECEIVER CHANNEL:
Jumper "SEC-1" – is installed. Jumper "TLG-1" – is removed.	Jumper "SEC-2" – is installed. Jumper "TLG-2" – is removed.

Each pressing the remote control button corresponds to one of the relay positions (ON/OFF).

#### 4. «HOLD MODE (CONTINUOUS)».

SETTING THE OPERATING MODE OF THE FIRST RECEIVER CHANNEL:	SETTING THE OPERATING MODE OF THE SECOND RECEIVER CHANNEL:
Jumper "SEC-1" – is removed. Jumper "TLG-1" – is installed.	Jumper "SEC-2" – is removed. Jumper "TLG-2" – is installed.

The receiver relay is activated during the continuous pressing the remote control button (maximum 25 seconds).

## 5. «PANIC BUTTON MODE».

SETTING THE OPERATING MODE OF THE FIRST RECEIVER CHANNEL:	SETTING THE OPERATING MODE OF THE SECOND RECEIVER CHANNEL:
Jumper "SEC-1" – is removed. Jumper "TLG-1" – is removed.	Jumper "SEC-2" – is removed. Jumper "TLG-2" – is removed.

This mode is used in security systems. The alarm occurs by pressing the remote control button, by unauthorized receiver opening, or when the electric power supply is disconnected. Last event memory - 30 minutes.

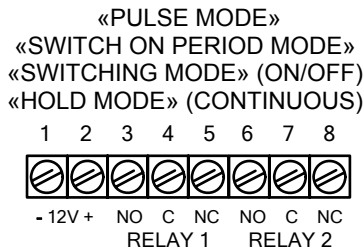
### RECEIVER CONNECTION.

Run the cable through the cable entry hole and connect the wires in accordance to the following instructions:

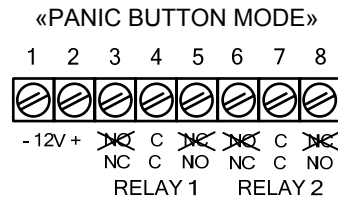
Terminals 1, 2 (marked -12V+) – for power supply.

Terminals 3, 4, 5, 6, 7, 8 – relay outputs for two receiver channels (RELAY1) and (RELAY2).

#### CONNECTING THE RECEIVER IN THE FOLLOWING MODES:



#### CONNECTING THE RECEIVER IN



### MEMORY CLEARING.

1. Disconnect power. 2. Press and hold the "Tact switch" button (SW2). 3. Restore power while still holding the "Tact switch" button (SW2) for a few seconds. LED starts to blink, and the moment LED turns off, all pre-programmed codes will be erased. 4. Release the button (SW2). 5. Start new learning of the receiver.

### LEARNING OF THE RECEIVER.

1. Press the "Tact switch" button (SW2) – LED will be OFF.
  2. Press any of the remote control buttons – LED will flash indicating successful code memorizing.
- If necessary, learn the receiver by additional remote controls.
3. Press the "Tact switch" button (SW2) – LED will be ON – the receiver is learned.

➤ Maximum quantity of remote controls learning the receiver– 330 pieces.

**NOTE:** To learn the receiver ACS-114R by four-channel remote control – use any of the remote control buttons.

### RECEIVING RANGE.

The operating range of the hand-held remote controls depends on the mounting location of the receiver. The various obstructions, the environmental factors, the radio-frequency and electromagnetic sources might influence the emission of radio-signal and as a result, might shorten the receiving range. For optimal radio-signal reception: mount the receiver at least 1.5 meter above the ground, as far as possible from any radio frequency and electromagnetic sources.

### TECHNICAL SPECIFICATIONS.

Power input:.....	12-16VDC;	Alarm period in panic button mode:.....	3sec;
Current consumption:		Warm up period:.....	0.5sec;
Stand-by mode:.....	15mA/12V;	Dry contact relay:.....	DC30V/1.0A; DC60V/0.3A; AC125V/0.5A;
Active mode:.....	39mA/12V;	Opening protection:.....	tamper switch;
Receiving range in open space:.....	up to 500m;	Last event memory in panic button mode:.....	30 min;
Security code:.....	"KEELOQ";	Operating temperature range:.....	-20°C +50°C;
Operating frequency:.....	433.92MHz ±50kHz;	Storage temperature range:.....	-40°C +80°C;
Radiated power:.....	≤10mW;	Dimensions:.....	85mm x 40mm x 20mm;
Memory capacity:.....	330 codes;	Weight:.....	125gr.

**WARRANTY.** GSN ELECTRONIC COMPANY LTD., warrants the product to be free from defects in materials and workmanship under condition of observance of service regulations and to be repaired or replaced under absence of mechanical damages for a limited period of five years from the date of sale.



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