

ACS™ -102R

PROFESSIONAL WIRELESS DUAL-CHANNEL KEELOQ® CODE HOPPING ALARM SYSTEM SET INSTRUCTION MANUAL AND TECHNICAL SPECIFICATIONS

INTRODUCTION.

ACS-102R is the wireless dual-channel multi purpose alarm system set designed for use as a Panic Button in security systems and for remote control of ELECTRICAL GATES, SLIDING DOORS, ELECTROMAGNETIC LOCKS, AUTOMATIC BARRIERS, ELECTRICAL CURTAINS, LIGHTING FIXTURES, etc.

KEELOQ® CODE HOPPING TECHNOLOGY.

The wireless alarm system set ACS-102R uses «KEELOQ» highly secure algorithm. The combinations of different codes transmitted by remote controls prevent radio scanning and unauthorized access. A 66-bit transmission code is used to make scanning impossible.

ACS-102R FEATURES.

- **TWO INDEPENDENT CHANNELS.**
- **FOUR OPERATING MODES OF THE RECEIVER:**
 1. PANIC BUTTON MODE (SECURITY)
 2. SWITCHING MODE (ON/OFF).
 3. HOLD MODE (CONTINUOUS)
 4. PULSE MODE - 1SECOND
- Receiving range in open space - up to 500 meters
- KEELOQ® code hopping technology
- Maximum quantity of remote controls learning the receiver – 330 pieces
- Easy learning of the receiver by additional remote controls
- 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. «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 installed. Jumper “TLG-1” – is installed.	Jumper “SEC-2” – is installed. Jumper “TLG-2” – is installed.

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.

ATTENTION! In the «PANIC BUTTON MODE» the receiver does not operate if the cover is removed.

2. «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).

3. «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).

4. «PULSE» MODE» - 1 SECOND.

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.

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.

RECEIVER CONNECTION.

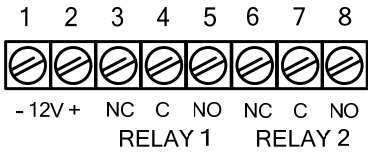
Run the cable through the cable entry hole and connect the wires in accordance to the following instructions:

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

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

CONNECTING THE RECEIVER IN

«PANIC BUTTON MODE»

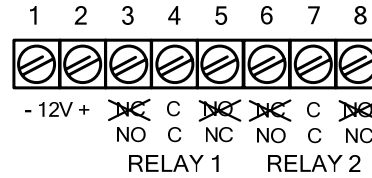


CONNECTING THE RECEIVER IN THE FOLLOWING MODES:

«SWITCHING MODE» (ON/OFF)

«HOLD MODE» (CONTINUOUS)

«PULSE MODE»



MEMORY CLEARING.

1. Disconnect power.
2. Remove jumper "LRN".
3. Restore power – LED starts blinking for 5 seconds and then will be OFF. All pre-programmed codes are erased.
4. Replace jumper "LRN".
5. Start new learning of the receiver.

LEARNING OF THE RECEIVER.

1. Remove jumper "LRN" – LED will be OFF.
2. Press any of the remote control buttons – the receiver's LED will flash once indicating successful code memorizing – the receiver is learned by the remote control.

If necessary, learn the receiver by additional remote controls.

3. Replace jumper "LRN".

4. Repeat steps 1-3 to learn the receiver by additional remote controls.

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

NOTE! To learn the receiver **ACS-102R** 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;	Warm up period:.....	0.5sec;
Current consumption:		Alarm period (in panic button mode):.....	3sec;
In stand-by mode:.....	15mA/12V;	Last event memory (in panic button mode):.....	30 min;
In active mode:.....	39mA/12V;	Dry contact relay:..DC30V/1.0A; DC60V/0.3A; AC125V/0.5A;	
Receiving range in open space:.....	up to 500m;	Opening protection:.....	tamper switch;
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:.....	127gr.

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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