

# ACS-102

## WIRELESS DUAL-CHANNEL ALARM SYSTEM SET

INSTALLATION  
INSTRUCTIONS AND  
TECHNICAL SPECIFICATIONS



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**GSN** Electronic Company Ltd.

1

### INTRODUCTION.

ACS-102 is a wireless dual-channel multi purpose alarm system set designed for use as a **PANIC BUTTON IN SECURITY SYSTEMS** and for remote controlling of:

- ELECTRICAL GATES
- SLIDING DOORS
- ELECTROMAGNETIC LOCKS
- AUTOMATIC BARRIERS
- ELECTRICAL CURTAINS
- LIGHTING APPLIANCES, ETC.

2

### ACS-102 RECEIVER FEATURES.

- Two independent channels
- Four operating modes for each channel:
  1. PANIC BUTTON MODE (SECURITY)
  2. SWITCHING MODE (ON/OFF)
  3. HOLD MODE (CONTINUOUS)
  4. PULSE MODE. 1 SECOND
- Maximum quantity of remote controls programming the receiver:.....680(pcs)
- Easy receiver programming by additional remote controls
- Unauthorized access protection
- Last event memory:.....30min

3

#### 1. «PANIC BUTTON MODE».

This mode is used in security systems. The alarm occurs by pressing any of the remote control buttons or by unauthorized receiver opening.

##### «PANIC BUTTON MODE» FEATURES:

##### A. POWER LOSS PROTECTION.

The relay operates in active mode. In case of power loss or intentional disconnection the relay opens its contacts.

4

#### B. LAST EVENT MEMORY.

Press the remote control button - receiver's LED starts blinking – the memory timer is on. Timer's operating period is 30 minutes. After the period of 30 minutes the memory is automatically erased.

##### NOTE!

The receiver memory saves only the last event, erasing the previous one.

5

#### C. THE UNAUTHORIZED OPENING PROTECTION.

In the «PANIC BUTTON MODE» a tamper switch provides an unauthorized opening protection of the receiver.

##### ATTENTION!

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

6

#### 2. «SWITCHING MODE» (ON/OFF).

This mode is for use in control systems of various devices. Each pressing the remote control button corresponds to one of the relay positions (ON/OFF).

#### 3. «HOLD MODE» (CONTINUOUS).

The receiver relay activates for the period of continuous pressing any of the remote control buttons.

#### 4. «PULSE MODE» (PULSE).

The pressing one of the remote control buttons causes the relay to activate for 1 second.

7

#### ACS-102 RECEIVER MEMORY CAPACITY.

The receiver ACS-102 is capable of memorizing up to 680 different codes and thus of operating with 680 remote controls.

#### THE REMOTE CONTROL.

The wireless remote control has two buttons corresponding to two channels of the receiver. Both buttons of the remote control can be used to program and operate the receiver.

8

#### LED INDICATIONS.

1. LED is on – the receiver is operating.
2. LED blinks – the memory timer is on (in the Panic Button Mode).

#### OPERATING MODE SELECTION.

1. Disconnect power.
2. Remove the cover.
3. Place jumpers at the desired setting (see Figure 1).
4. Restore power.
5. Program the receiver by the remote control.
6. Replace the cover.

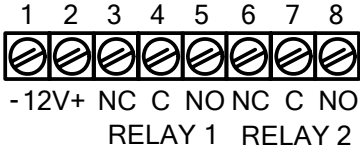
9

**THE RECEIVER CONNECTION.**

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

TERMINAL 1,2 - marked -12V+. The receiver ACS-102 operates on input power of 12-16VDC.

TERMINALS 3, 4, 5, 6, 7, 8 – relay output for two channels of the receiver (RELAY-1), (RELAY-2).



10

**SETTING THE OPERATING MODES.**

For programming the receiver by additional remote controls and operating modes settings refer to «Figure-1».

Jumper (LRN) – for programming the receiver by remote controls.

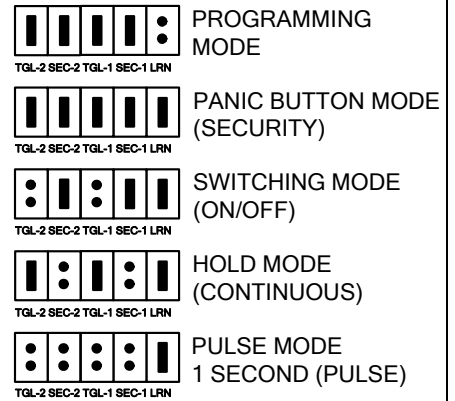
Jumpers (SEC-1) and (TGL-1) – for operating mode settings of the first channel.

Jumpers (SEC-2) and (TGL-2) – for operating mode settings of the second channel.

**ATTENTION!**

The manufacturer guarantees flawless operation of the receiver if the change of operating modes is carried out when the power supply is disconnected.

11



✓ Jumpers position according to operating modes of the receiver for two channels.

«FIGURE-1»

12

**MEMORY CLEARING.**

1. Disconnect power.
2. Remove jumper “LRN”.
3. Restore power – LED starts slowly blinking for 10 seconds, then the cycle frequency of LED operation changes. All pre-programmed codes will be erased.
4. Replace jumper “LRN”.
5. Start new programming of the receiver.

**PROGRAMMING THE RECEIVER.**

1. Remove jumper “LRN” – LED will be off.

13

2. Press any of the remote control buttons – the receiver’s LED will flash once indicating successful code memorizing – the receiver is programmed by the remote control.
3. Replace jumper “LRN”.
4. To test the programmed code, press continuously the tamper button. In 3 seconds press the remote control button. The simultaneous relay and LED activation indicates successful code memorizing.
5. To program the receiver by additional remote controls, repeat the mentioned above operations (Items 1-4).

14

**IMPORTANT!**

The receiver programming in the «PANIC BUTTON MODE» causes immediate activation of the event memory for last 30 minutes.

**LED INDICATION DURING RECEIVER PROGRAMMING.**

1. LED blinks intermittent – there is no code saved in the receiver memory.
2. LED is off – the receiver is ready for programming.
3. LED flashed ones – the remote control code is saved in the receiver memory.

15

**TECHNICAL SPECIFICATION.**

Power Input:.....12-16VDC  
 Current Consumption:  
 Stand-by mode:.....46mA - 12V  
 Active mode:.....27mA - 12V  
 Receiving Range in  
 Open Space:.....200 - 250m  
 Operating Frequency:.....433.92MHz  
 Effective Radiated Power  
 of Remote Controls:..... ≤10mW  
 Memory Capacity:.....680codes  
 Alarm Period in  
 Panic Button Mode :.....3sec

16

Warm up  
 Period:.....0.5sec  
 Opening Protection:...Tamper Switch  
 Dry Contact Relay:.....  
 .....DC30V, 1.0A  
 .....DC60V, 0.3A  
 .....AC125V, 0.5A  
 Operating Temp:.....-20°C +50°C  
 Storage Temp:.....-40°C +80°C  
 Dimensions:..85mm x 40mm x 20mm  
 Weight:.....95gr.

P/N: USM0E102 REV.A

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17

**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.

**GSN** Electronic Company Ltd.

7 ATARA ST.  
 NAZARETH ILLIT 17802  
 P.O.BOX 17719  
 ISRAEL

TEL: 972 4 6467152  
 FAX: 972 4 6562414

WWW.GSNCOMPANY.COM

18