

## ACS-124R PLUS

WIRELESS MULTIFUNCTIONAL  
CONTROLLER PROGRAMMED  
BY REMOTE CONTROLS –  
FROM A DISTANCE

INSTALLATION  
INSTRUCTIONS AND  
TECHNICAL SPECIFICATIONS



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**GSN** Electronic Company Ltd.

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### PURPOSE.

The wireless one-channel controller ACS-124R PLUS is used for remote control of:

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

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### ACS-124R PLUS' FEATURES.

- Key of the ACS-124R PLUS controller is a "Master Remote Controls"
- Remote controls manages the controller by means of Master Remote control(s) - from a distance
- KEELOQ – Rolling security code
- Power input:.....AC/DC12-24V
- Maximum quantity of "Master Remote control(s)", able to program the controller:.....10
- Maximum quantity programmable remote controls with of different codes:.....330
- Removable memory device saves all pre-programmed codes.

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### PROGRAMMING THE CONTROLLER BY MASTER REMOTE CONTROL(S).

1. Press continuously the "Tact Switch" button, located on the PCB of the controller.
2. Press twice any button of the remote control appointed as a "Master Remote Control(s)".
3. Release the "Tact Switch" button – the controller is programmed by means of the appointed "Master Remote Control(s)".

#### To program the controller by additional "Master Remote Control(s)".

1. Press the button of the first appointed "Master Remote

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2. Press the "Tact Switch" button and, holding it, press twice any button of the additional remote control(s) – the controller is programmed by means of the additional "Master Remote Control(s)".
3. Release the button "Tact Switch".

### PROGRAMMING THE CONTROLLER BY REMOTE CONTROLS.

1. Press once the button of "Master Remote Control(s)".
2. Press twice the button of each programmable remote control to program the controller by necessary quantity of remote controls.
3. Press the button of "Master Remote Control(s)".

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### ERASING OF THE REMOTE CONTROL CODE FROM THE CONTROLLER MEMORY.

1. Press once the button of "Master Remote Control(s)".
2. Press continuously the button of the remote control which code is to be erased. A long continuous signal followed by a few short tones notifies the code has been deleted from the controller's memory.
3. Release the button of the remote control.

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### DELETING OF ALL CODES FROM THE CONTROLLER MEMORY.

1. Remove the cover of the controller.
2. Press continuously the button of the "Master Remote Control(s)".for at least 7 seconds until a short tone sounds.
3. Press the "Tact Switch" button, located on the PCB of the controller. The buzzer emits long sound signal notifying all codes saved in the memory of both the "Master Remote Control(s)".and remote controls have been erased.

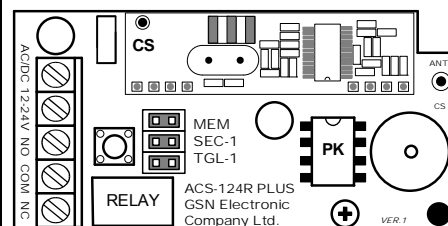
### REMOVABLE CONTROLLER MEMORY DEVICE.

The controller's memory device can be removed and installed in any other controller.

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The controller's memory device keeps all the pre-programmed codes, even after its removal from the PCB.

1. Disconnect the power supply.
2. Extract with care the microcircuit (controller's memory device) and install it in the new controller.
3. Program the new controller by the "Master Remote Control(s)".



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### SELECTING THE CONTROLLER OPERATING MODE.

1. Disconnect the power supply.
2. Open the cover of the controller.
3. Insert the jumpers to set the required operation mode (see page 12).
4. Connect the power supply.
5. Program the controller with the "Master Remote Control(s)" and/or remote controls if required.
6. Close the controller cover.

#### ATTENTION!

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

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**OPERATING MODES.**

- \* **"SWITCH ON PERIOD"** mode. Pressing any of the remote control buttons activates the relay from 1 up to 240 seconds.
- \* **"ON/OFF"** mode. Each pressing the remote control button changes the relay positions - switched on/off.
- \* **"CONTINUOUS"** mode. The relay activates for the period of continuous pressing one of the remote control buttons.
- \* **"PULSE"** mode. Pressing one of the remote control buttons activates the relay for 1 second.

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**PROGRAMMING THE "SWITCH ON PERIOD" MODE.**

1. Remove jumper "MEM".
2. Press continuously the "Tact switch" button. The LED starts blinking; the controller memorizes the required switching on/off time from 1 up to 240 seconds.
3. Release the "Tact switch" button after setting the required time.
4. Replace jumper "MEM".

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	MEM	- PROGRAMMING OF
	SEC-1	«SWITCH ON PERIOD»
	TGL-1	MODE
	MEM	- «SWITCH ON PERIOD»
	SEC-1	MODE
	TGL-1	
	MEM	- «ON/OFF»
	SEC-1	SWITCHING MODE
	TGL-1	
	MEM	- «CONTINUOUS»
	SEC-1	MODE
	TGL-1	
	MEM	- «PULSE» MODE
	SEC-1	1 SECOND
	TGL-1	

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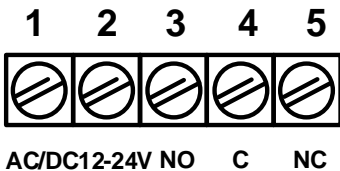
**CONTROLLER CONNECTION.**

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

Terminal 1, 2 - marked AC/DC 12- 24V for power supply.

The controller ACS-124R PLUS operates on input power of 12-24 volts ± 10 % AC or DC.

Terminals 3, 4, 5 - relay output.



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**ACS-124R PLUS' CONTROLLER MEMORY CAPACITY.**

The wireless controller ACS-124R PLUS is capable of memorizing up to 330 different codes, thus of operating with 330 remote controls each with its own code.

**REMOTE CONTROL.**

The remote control has two buttons corresponding to one channel of the controller.

Both buttons of the remote control can be used to program and operate the controller.

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**OPERATING RANGE.**

The operating range of the remote controls depends of the mounting location of the controller.

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 control range.

For optimal radio-signal reception: mount the controller at least 1 meter above the ground, as far as possible from any radio frequency and electromagnetic sources.

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**TECHNICAL SPECIFICATION.**

- Power Input: ...AC/DC 12-24V ± 10%
- Current Consumption:
- Stand-by mode: .....17mA from 24V
- Active mode: .....33mA from 24V
- Receiving Range in Open Space: .....500m
- Operating Frequency: .....433.92MHz
- Effective Radiated Power of Remote Controls: ..... ≤10mW
- Maximum quantity of "Master Remote Control(s)", able to program the controller: .....10
- Memory Capacity: .....330codes

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- Rolling security code: ..... "KEELOQ"
- Warm up Period: .....0.5sec
- Dry Contact Relay: ..... DC30V, 1.0A
- .....DC60V, 0.3A
- .....AC125V, 0.5A
- Operating Temperature: .....-20°C +50°C
- Storage Temperature: .....-40°C +80°C
- Dimensions: .85mm x 40mm x 20mm
- Weight: .....97gr.

P/N: USM0E124R PLUS REV.A      MADE IN ISRAEL

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**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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