

# LiftGuard LG-V230 Lift Alarm and Emergency Light



LiftGuard Inspector™ application compatible

## Features

- Easy to install & use
- Up to three service phone numbers programmed
- Calls to / from the three programmed phone numbers
- Handles lift signals: Safety Chain, Door Zone
- Handles battery power status
- Filters false alarms
- Sends periodic message (in 72 hours)
- Uses external antenna
- Meets EN 81-28 standard
- Handles main power status
- Emergency LED lifght
- Works with LiftGuard Inspector™ application
- Vandalproof acoustic unit in metal box

## Description

The device provides monitoring and reporting of lift alarm events. It establishes two-way voice communication between a trapped passenger and the service company. The communication with the service company is done via embedded GSM module. It supports backup power supply via rechargeable battery, guarantying at least one hour full functionality without main power.

The device maintains emergency LED light in the car. It can be installed in passenger or good passenger lifts



## Functionality

The device establishes two-way voice communication between a trapped passenger and the service company by pressing the call button in the lift's car. The communication can not be dropped by the passenger, but by the service personnel only. It can be reestablished multiple times from both sides as far as the lift is in alarm condition.

The device reports alarm events.

When alarm condition does not exist voice communication cannot be established.

Allows message to be sent to verify the operational status of the device and allows End Of Alarm message to be sent, as EN 81-28 requires.

The device sends period messages in every 72 hours with information of the current status of the lift

It supports two operation modes – active and inactive

In inactive mode it does not send alarm messages, does not allow voice communication, it sends 72 hours periodic message and allows test message to be sent. This mode is suitable when the lift is in maintenance or repair

In active mode, the basic mode, the device sends alarm and periodic messages and allows voice communication in alarm condition.


The device supports communication with up to three service phone numbers; they can be programmed and changed by the service personnel. It allows incoming calls from these three phone numbers only, calls from other numbers are rejected.

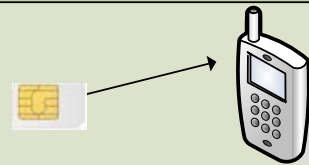
The communicator and the external antenna are meant to be installed on top of the car; the acoustic unit on the car's control panel, and the emergency LED lamp up in the car

## Installation


### Setting Service Telephone Numbers


Insert the SIM card the device is going to use, into a mobile phone


 The SIM card has to be set not to require PIN code



Program phone book / contacts with the service phone numbers


 The programming of the phone numbers could do done in international format +xxxxxxxxxxx or in format 0xxxxxxxx

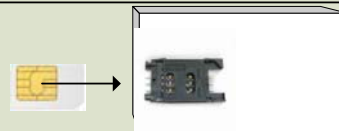
 The order of programming of phone numbers matters: the device tries to connect to the first phone. if it fails – to the second, if it fails again - to the third

 It has to be set phone numbers / contacts to be written into SIM card, not into mobile phone memory

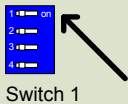


Insert the SIM card into device and it is going to start using programmed phone numbers

 When plugging SIM card make sure the device is powered off, otherwise SIM card could be damaged

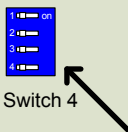


### Modes of operation and settings



Switch 1

Via SW1-1 the modes of operation of the emergency LED lamp could be set:  
When is off the lamp is lighted only during main power (230 AC power) lost  
When is on – the lamp is lighted all the time



Switch 4


Via the forth switch SW1-4 could be set the volume of the speaker.  
When Off the volume is normal, when on - the volume is higher (suitable for lift with bigger cars / cabins)





For using LiftGuard Inspector application providing no mobile services expenses for the period tests and monitoring of the installed devices visit:  
<https://play.google.com/store/apps/details?id=com.aldev.devcontrolen>  
The application is free of charge

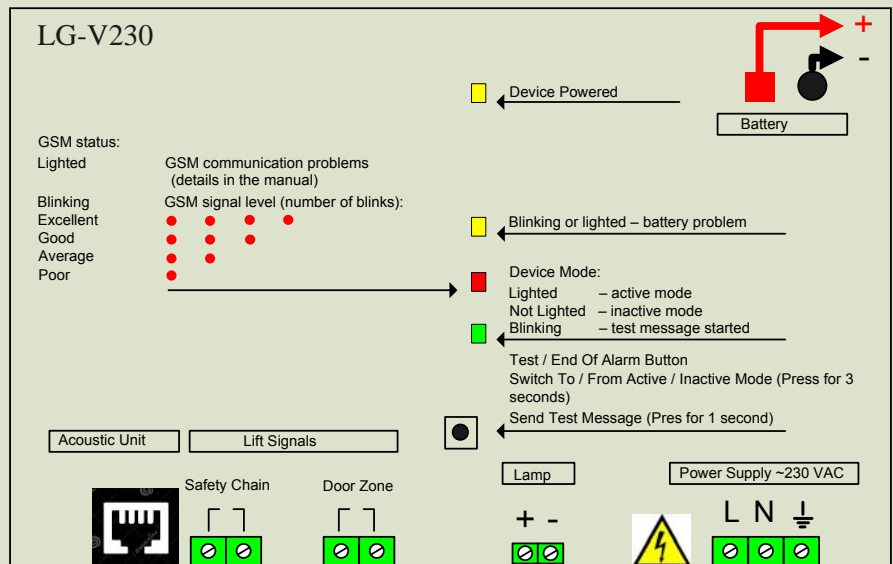
### Electrical Installation

The power supply and signal cables have to be connected according to the scheme in the right or to the label located on the communicator of the device

 Electrical installation has to be done by qualified personnel

 During the electrical installation the whole system has to be powered off

 When the device is power the yellow LED is lighted



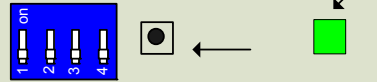
## Device Operation

### Device Activation

To activate the device press Test Button till green LED turns on / Is lighted (approximately 3 seconds)

Green LED is on - active mode

Button Test (3 seconds)

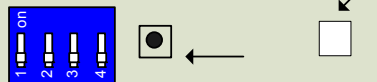


### Device Inactivation

To inactivate the device: press Test Button till green LED turns off / Is lighted off (approximately 3 seconds)

Green LED is off - inactive mode

Button Test (3 seconds)

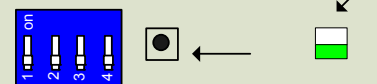


### Send Test Message / End Of Alarm Notification

To send message press Button Test for approximately 1 second, unpressed it, green LED will blink several times to indicate sending has started

Green LED is blinking

Button Test (1 seconds)



## LEDs Indication

Yellow LED

Device Powered

Red LED

Lighted: GSM communication problems

- No coverage or mobile service
  - No SIM card
  - SIM card is set to require PIN
  - No service phone number(s) entered
- Blinking: GSM signal level (number of blinks):

|           |         |
|-----------|---------|
| Excellent | • • • • |
| Good      | • • •   |
| Average   | • •     |
| Poor      | •       |

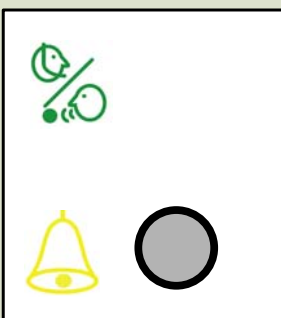
Green LED

Green LED is on - active mode  
 Green LED is off - inactive mode  
 Green LED is blinking - test message started

Orange LED

Orange LED is off - battery charged  
 Orange LED is blinking - battery low  
 Orange LED is on - battery very low

## Acoustic Unit



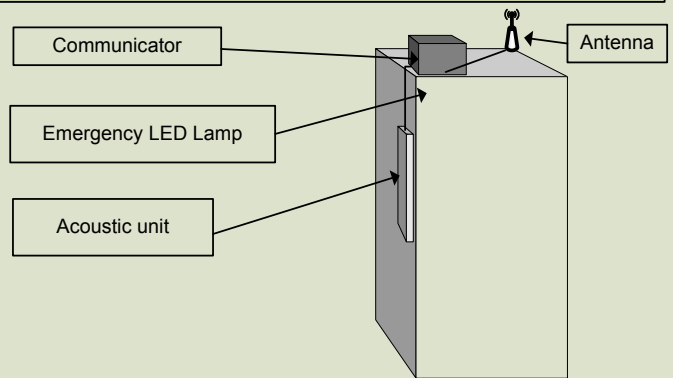
The acoustic unit includes everything required: Call Button (SOS Button), microphone, speaker, yellow and green pictograms.

When the Call Button is pressed and conditions for voice connection are met the yellow pictogram is lighted, when voice connection is established, the green pictogram is lighted.

When the button is pressed and no conditions for voice, the connection is not allowed and yellow pictogram is blinking several times

## Mechanical Installation

The communicator of the device and the external antenna have to be installed on top of the car. The acoustic unit have to be installed on the car's control panel, the LED lamp – up in the car.



## Appendix A: Conditions voice connection to be allowed

According to the standard a voice connection has to be allowed when: a trapped passenger / passengers can not leave the car: the car is between floors, floor door could not be opened; the car is in constant movement: The conditions are as follow:

- When car does not stop for more than 2 minutes;
- When main power (230 VA power) is lost
- When being stopped on floor car's door is not opened in 10 seconds period;
- When safety chain is triggered during car movement

## Appendix B: Technical Highlights

- Power Supply: 230V AC
- Power consumption in idle mode: 0,25 VA
- Power consumption during voice connection: 1,80 VA
- Power consumption when LED lamp is on: 5.00 VA
- Input signal Safety Chain: from 24 to 230V AC or DC
- Input signal Door Zone: from 24 to 230V AC or DC
- Mass – communicator: 1.8 kg (battery)
- Mass – acoustic unit: 0.3 kg
- Size – communicator: 200x140x66 mm
- Size – acoustic unit: 120x80x30 mm
- Operational Temperature Range: from -20°C to +60°C
- Storage Temperature Range: from -40°C to +85°C

## Appendix C: Kit Parts

- Communicator: 1 piece
- Acoustic unit (with cable): 1 piece
- Antenna (with cable): 1 piece
- Battery 1.3 Ah: 1 piece
- LED lamp (with cable): 1 piece
- Guide: 1 piece

The guaranty of the product: 24 months, starting from the day of purchase

The guaranty could be refused in cases of maintenance not according to the technical guide

Serial Number:

IMEI:



Manufactured by Electro Thermal Ltd, Bulgaria

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