

**Control panel**  
**Contact GSM-9K**  
Data sheet

Device identification number

## 1. General information

The Contact GSM-9K control panel (hereinafter as the device) is designed for setting up to remote secure the real estate objects: apartments, offices, and country houses.

Data transfer to the monitoring software is done via a GSM network and also via GPRS, CSD, SMS

### 2. Developer

"NPO "Ritm" LLC  
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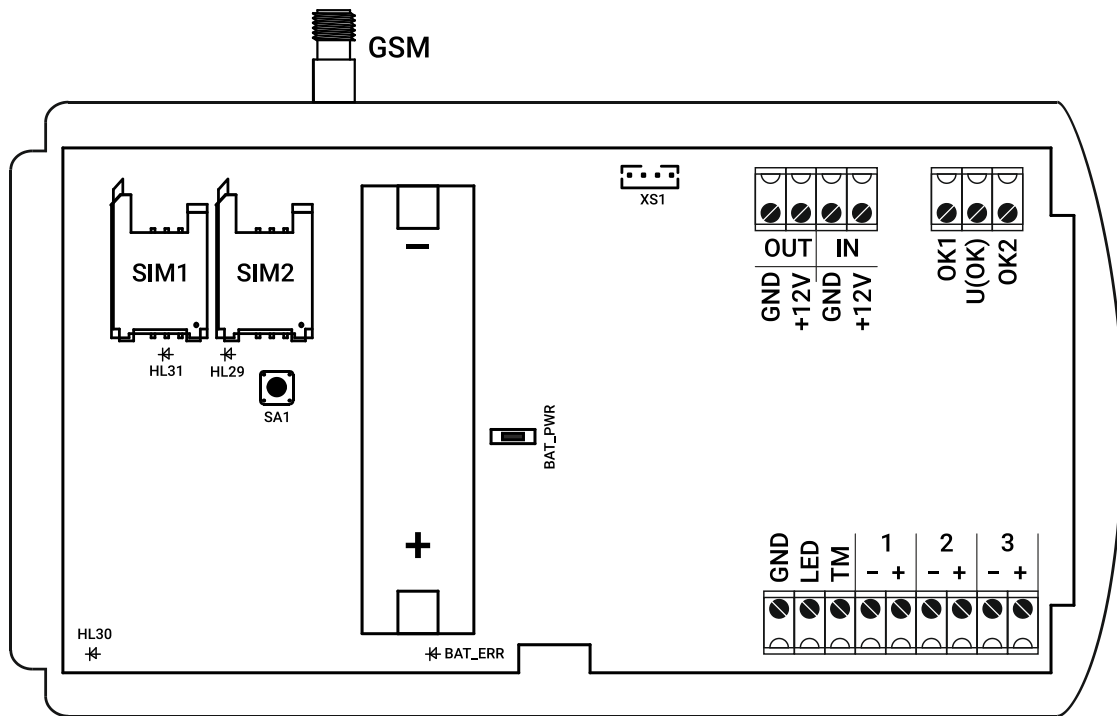
### 3. Manufacturer

"Contact "Experimental Factory" Ltd.  
192241, Saint Petersburg, Russia  
Yuzhnoye Highway 37, Bld.2, let. 'A'  
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## 4. Technical Specifications

Parameter	Value	
GSM, MHz	850/900/1800/1900	
Communication channels	CSD, GPRS, SMS ContactID, SMS to personal phone,	
SIM-holders quantity	2	
Max. number of independent Areas	6	
Number of input hardwired zones, pcs	3 dry contact (NC or NO) 6 resistive (2EOL)	
Max. number of TM or RFID keys, pcs	16	
Support of smart-card readers MIF2 and MIF3	+	
Support of one 1-Wire temperature sensor	+	
Number of outputs, pcs	2	
Maximum total load current of all outputs (OK1, OK2 and OUT), mA	300	
Configuration of resistance thresholds for each input	+	
Arming by area (one or several areas)	+	
Arming/disarming from monitoring software	in "GPRS Online" mode only	
Arming/disarming from build-in keypad	+	
Arming/disarming with TM or RFID keys	+	
Number of events in history	65535	
Set-up of parameters using PC (with special cables USB1 or USB2)	+	
Supply voltage, V	230	
Backup accumulator type and voltage	18650, 3.7 V	
Main power supply availability monitoring	+	
Current consumption, A (depends on quantity and type of connected zones)	Min.: 0.065 Max.: 1	
Dimensions, mm	160×100×40	
Weight, g	not exceeding 300	
Operating temperature range, °C	w/o accumulator	-30... +50
	with accumulator	0... +45

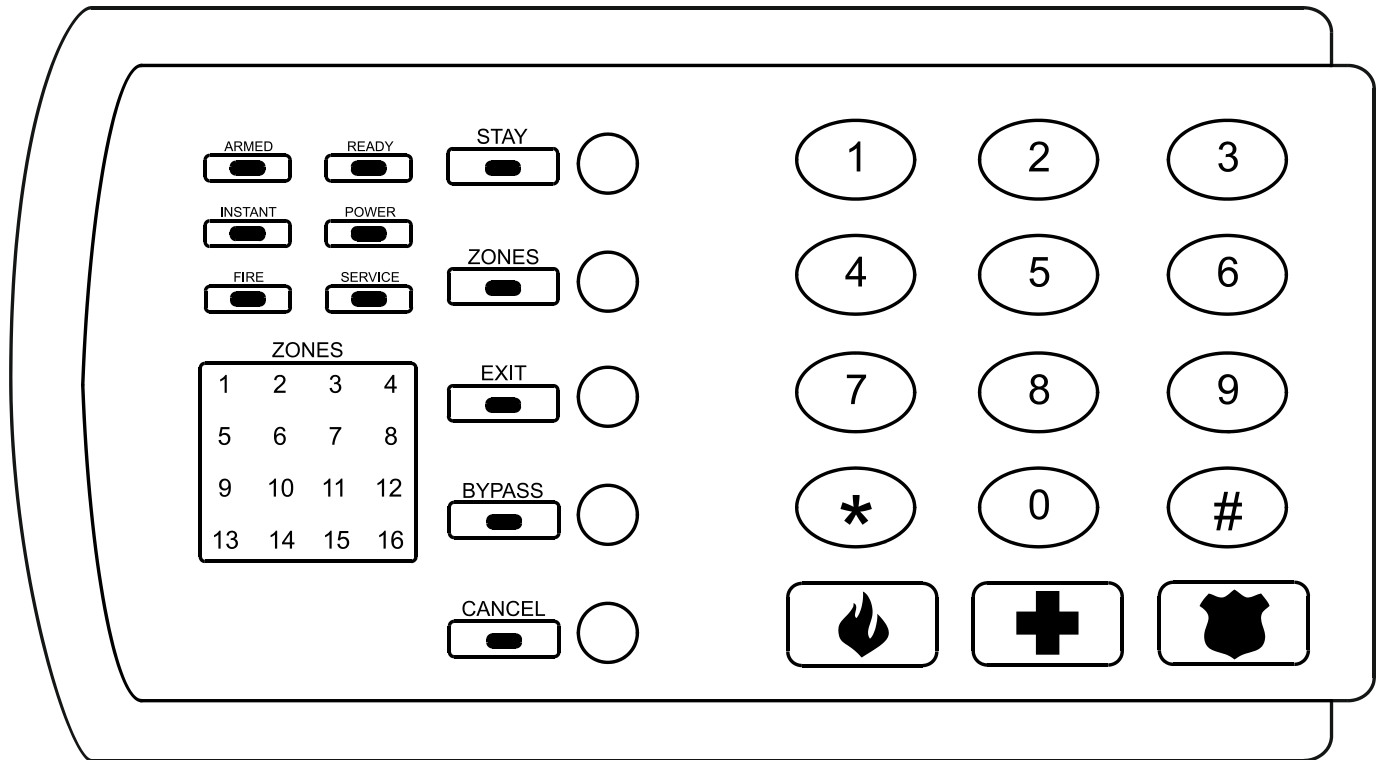
## 5. Designation of Elements






Element	Designation
GSM	Connector for external GSM antenna (not available in devices with built-in antenna).
IN +12V, GND	Power supply input terminals. Connect to AC/DC adapter output.
OUT +12V, GND	Terminals for powering security sensors. +12 V constant voltage is applied to terminals when device is on.
+1-; +2-; +3-	Terminals for connecting hardwired zones.
OK1, OK2, U(OK)	Terminals for connecting external devices (visual indicators, relays, etc.). Indicator duplicating statuses of EXIT areas can be connected to terminals OK1 and +U(OK). Siren can be connected to terminals OK2 and +U(OK).
TM, LED, GND	Terminals for connection a TM/Mifare reader and/or a temperature sensor with 1-Wire interface: <ul style="list-style-type: none"> <li>• TM – 1-Wire input for connection to TM/MIF signaling wire and temperature sensor yellow wire;</li> <li>• LED – output for connection of TM indicator;</li> <li>• GND – common for connection to TM /MIF reader black and blue (and/or black-blue) wire and temperature sensor black and red wire.</li> </ul>
SA1	Enclosure break-in or supporting surface tear-off tamper of device.
XS1	Connector for special cable for communication with PC.
SIM1	Holder for connection of first SIM card.
SIM2	Holder for connection of second SIM card
BAT_PWR	Accumulator power on. When you change accumulator and main power supply is off , use the button to turn on the device.

Element	Designation	
BAT_ERR	Wrong position (+/-) of accumulator. Flip it.	
HL30	Flash 3 times per sec.	Device is connected to the monitoring server.
	Flash 1 times per sec.	Modem is registrated in GSM network.
	Flash 1 time per 3 sec.	Modem has successfully registered in the network
	Off	Modem is switched off
HL31	Devisе uses SIM1	
HL29	Devisе uses SIM2	

## 6. Designation of Buttons



Button	Designation
STAY	Arming or areas mapped to the 'STAY' button.
ZONES	If not pressed: Zones indicators show statuses of areas. If pressed: Zones indicators show statuses zones.
EXIT	Arming or areas mapped to the 'EXIT' button.
BYPASS	<i>Reserved.</i>
CANCEL	Cancels earlier entered symbols/switches off the siren (if the siren switch off feature has been set up in the configuration software)
0-9, *, #	Entry of corresponding symbol
	'Fire alarm' signal generation
	'Medical alarm' signal generation
	'Panic button' signal generation

## 7. Visual Indication

Device indication in standby mode		
Indicator	State	Note
ARMED	On	Any of security areas is armed
	Blinking	Alarm in any area
	Off	All areas are disarmed
READY	On	All zones in non-armed areas are normal
	Blinking	Communications test with monitoring server
	Off	At least one zone in non-armed areas is not normalized or all areas are armed
FIRE <sup>1</sup>	On	Risk of fire (one fire detector has been triggered)
	Blinking	Fire alarm (two or more fire detectors have been triggered)
	Off	Normal
INSTANT	On	Device keypad configuration mode
	Blinking	Remote configuration mode or configuration cable mode
	Off	Device in operating mode
POWER	On	220 V main power supply available
	Blinking	Device operates at redundant accumulator.
	Off	No power
SERVICE	Blinking	Non-transmitted events are available
	Off	All events are transmitted or event log is empty
STAY	On	All STAY areas are armed
	Blinking	Alarm in STAY area
	Off	STAY areas are not armed or there are no STAY areas
ZONES	On	Within 1 minute, display statuses of zones. Then display statuses of areas.
	Blinking	Firmware is updated. Do not power off!
	Off	Area statuses are shown (default)
EXIT	On	Incoming delay countdown
	Blinking	Outgoing delay countdown
	Off	No delay countdown
CANCEL	On	Turns on for 1 second when CANCEL button is pressed.
ZONES	The Zones button is pressed. Statuses of zones 1–6 are shown	
	Off	Zone is OK
	On	Zone in alarm state for security ribbon cable/risk of fire for fire protection ribbon cable
	Blinks at 1 Hz	Alarm by fire protection ribbon cable
	Blinks at 7 Hz	Zone failure
	The Zones button is not pressed. Statuses of areas 1–6 are shown	
	Off	Area disarmed
	On	Area armed
	Blinks at 1 Hz	Alarm in area or outgoing delay
	Blinks at 7 Hz	Area failure

<sup>1</sup> The control panel is intended for fire protection within the Russian Federation only. Do not use it as a fire control and indicating equipment within European Union.

## 8. Configuration

- 8.1. To configure the device, connect to it using the most suitable way:
- Desktop configuration. To connect use a special cable (USB1 or USB2). Setup via configuration software ritm.conf or Ritm Configure.
  - Remote configuration via digital GSM. To connect use a GSM CSD channel (GSM modem). Setup via software ritm.conf or Ritm Configure.
  - Remote configuration via TCP/IP. Use the GEO.RITM or RITM-Link. Suitable, when the device works in Online mode.



To use the configuration software ritm.conf or Ritm Configure download it from the website of the "Ritm" ([www.ritm.ru/en](http://www.ritm.ru/en)) and install all the required drivers.

To connect via a digital CSD-channel make sure there is access to the digital data transmission service (CSD) and there are enough funds on the account of the SIM-card inserted into the device.

Remote configuration via CSD is only possible from the engineering phone numbers.

- 8.2. In case of desktop configuration install all necessary USB cable drivers.
- 8.3. In case of desktop configuration or remote configuration via a CSD channel run the "Connection Wizard" from the manufacturer's website.
- 8.4. In case of remote configuration via a TCP/IP connection open the "Equipment" tab in the "Object's card" and follow the "Setup a device" hyperlink.
- 8.5. Set up all parameters of the device according to the specifics of the protected object, while referring to the 'Contact GSM-9K. User manual' instruction.

## 9. Placement and Installation

The device should be installed at a location protected against atmosphere effects and physical impact, within reach of users, and where a strong GSM network signal is present. We recommend to measure the strength of the GSM signal using the device configuration software.



Insertion of SIM cards should always be performed with the power off!

- 9.1. Open the device enclosure.
- 9.2. Run all wires through a special opening in the enclosure back cover.
- 9.3. Securely fasten the back enclosure cover on a wall.
- 9.4. Connect all wired zones (loops) to inputs -1+, -2+, -3+.
- 9.5. Connect circuits with all devices (relays, LEDs, sirens, TM/Mifare reader, etc.).



Readers "Matrix-II" and "Matrix III" are not compatible with a wired temperature sensor and intelligent reader MIF0-1, developed by Ritm.

- 9.6. Turn off the PIN code entry feature on the SIM card to be installed in the device. The best way to do this is using a mobile phone: insert the SIM card into your phone, turn off the PIN code entry feature (following your phone's instructions), and then extract the SIM card from your mobile phone. Insert a SIM card to its SIM card box.
- 9.7. Connect the AC/DC adapter to the power supply connector. Connect 220 AC to the adapter.
- 9.8. Install backup accumulator.
- 9.9. Securely fasten the back enclosure cover with a screw and close it.
- 9.10. Install a GSM antenna to the SMA connector (for devices with an external GSM antenna).
- 9.11. Turn on the power source.

## 10. Transportation and Storage

The device should be transported in packaging in closed vehicles. Storage premises should be free of current-conducting dust, acid and alkaline fumes, corrosive gases and gases harmful to insulation.

## 11. Maintenance and Safety Measures

Periodically, at least twice a year, check the reliability of contacts and, if necessary, clear their bonding areas.

All setup and maintenance activities applied to the device should be performed by duly qualified personnel.

## 12. Manufacturer's Warranties

The manufacturer guarantees that the device complies to requirements of the technical specifications, provided the client ensures compliances to conditions of transportation, storage, installation and operation.

Although the warranty period is 12 months from the commissioning date, it may not exceed 18 months from the production date.

The warranty storage period is 6 months from the production date.

The manufacturer reserves the right for modification of the device in any way that does not degrade its functional characteristics without prior notice.

## 13. Information on Claims

In case of a device failure or defect during the warranty period, please fill in a malfunction report specifying the dates of issue and commissioning of the device and nature of the defect and submit it to the manufacturer.

## 14. Package Contents

Contact GSM-9K control panel	1 pc
GSM-antenna <sup>2</sup>	1 pc
Resistor kit	1 kit
220 AC/ 12 DC adapter	1 pc
Accumulator 18650	1 pc
Installation kit	1 kit
Data sheet	1 pc
Packaging	1 pc

<sup>2</sup> For devices with external GSM antenna.