

# Control panel

# **Contact GSM-9M**

Data sheet

Device identification number

## 1. General Information

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

Messages are transferred to the central observation panel via a GSM network using GPRS, CSD and SMS channels.

This data sheet covers the following device versions:

- Contact GSM-9M TM control panel: the device is equipped with a Touch Memory key reader built in the enclosure.
- Contact GSM-9M NFC control panel: the device is equipped with a NFC (RFID) key reader built in the enclosure.

## 2. Manufacturer:

**RITM Company**  
195248,  
Energetikov avenue, building 30, block 8,  
St Petersburg, Russia  
Tel.: +7 911 795 02 02  
[www.ritm.ru/en](http://www.ritm.ru/en)    [world@ritm.ru](mailto:world@ritm.ru)

## 3. Package Contents

Contact GSM-9M control panel <sup>1</sup>	1 pc
GSM-antenna	1 pc
Backup power supply cable	1 pc
Data sheet	1 pc
Packaging	1 pc

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<sup>1</sup> The device is delivered in the **Contact GSM-9M TM** version or in the **Contact GSM-9M NFC** version.

#### 4. Technical Specifications

Parameter	Value
GSM, MHz	850/900/1800/1900
Communication channels	CSD, GPRS, SMS to personal phone, SMS ContactID
Number of SIM cards installable, pcs	2
Arming by area (one or several area(s))	+
Configuration of (resistance) thresholds for each input loop	+
Arming/disarming from monitoring software	+ (in GPRS Online mode)
Arming/disarming with TM/RFID keys <sup>2</sup>	+
Max. number of TM/RFID keys, pcs	16
Number of events in history	65535
Set-up of parameters using PC	+
Number of bare collector outputs (with 300 mA maximum load), pcs	2 (for controlling actuation devices)
Number of input loops, pcs	up to 3 of "dry contact" type or up to 6 resistive
Main power source voltage, V	220
Backup power source voltage, V	12±2
Max. power consumption from battery 12V, V·A	3,2
Nominal power consumption from battery 12V, V·A	1,8
Max. power consumption from 220V, V·A	6,6
Dimensions, mm	170×120×50
Weight, g	370
Operating temperature range, °C	-30...+50

<sup>2</sup> Depending on the version.



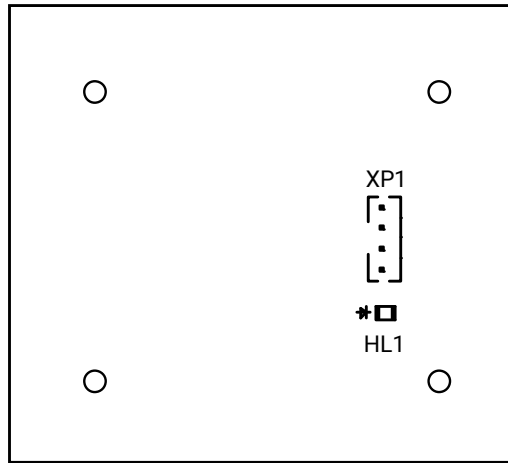
#	Part	Designation
1	LEDs	Device indication is described in the section 6
2	Blank plug	A mounting hole designed for cable inlet/outlet
3	Touch Memory reader <sup>3</sup>	TM reader built in the enclosure
4	GSM antenna connector	External GSM antenna connector
5	SIM card connector	Vertical slots for SIM cards
6	Configuration cable connector	Configuration cable connector for PC communication
7	RFID <sup>3</sup> reader	RFID reader built in the enclosure
8	Spring contacts	Spring contacts are connected to the indication board. (on the top cover of the enclosure).
9	Battery location	Backup battery compartment
	+1-; +2-; +3-	Terminals for "dry contact" type and resistive loops connection
	OK1, OK2, Uok	Connectors for actuation devices The OK1, OK2 terminals are negative and the Uok terminal is positive for devices.
	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 – input (positive) for connection of TM/Mifare signaling wire and temperature sensor yellow wire;</li> <li>• LED – output for connection of Touch Memory indicator;</li> <li>• GND – common for connection of Touch Memory reader black and blue (and/or black-blue) wire and temperature sensor black and red wire.</li> </ul>
	+BAT-	Lead-acid battery connector The «-» terminal is negative and the «+» terminal is positive for the battery.
	220V 50Hz	220V power supply connector



**Invalid the device operation in conditions of condensation!**

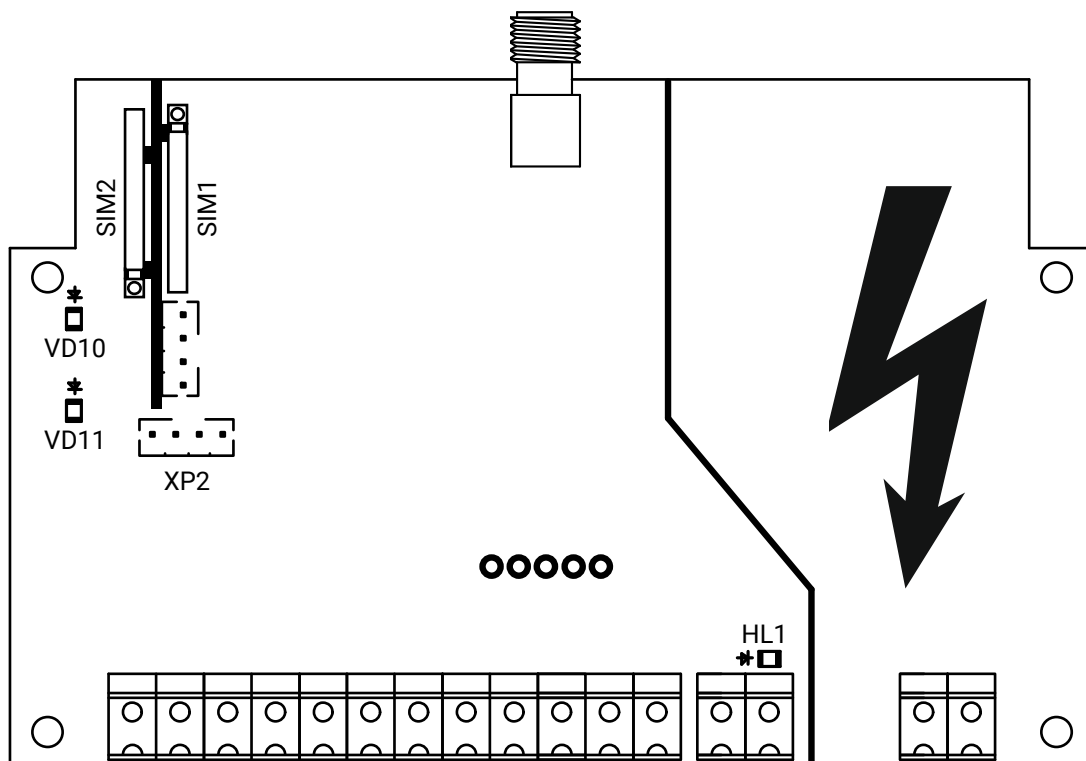
<sup>3</sup> Optional. Depending on the version.

Built-in NFC reader<sup>4</sup> has the following elements:



Element	Designation
<b>XP1</b>	Connector to connect the reader to the board of the device.
<b>HL1</b>	Indicator has the following modes: <ul style="list-style-type: none"> <li>• Blinking – no communication with the device;</li> <li>• Blinks once – applied key has been read.</li> </ul>

The device has the system elements that partially concealed by the enclosure:







Element	Designation
<b>XP2</b>	A terminal for connection a TM/NFC reader.
<b>HL1</b>	The battery connection indicator (indicator is on if the battery is connected incorrectly).
<b>VD10 and VD11</b>	Active SIM card indicators (the indicator of active SIM card is on).



To avoid risk of electrical shock do not touch the area indicated on the picture by the symbol ⚡.

<sup>4</sup> Optional.

## 6. Visual Indication

Indicator	State	Designation
 (blue)	On	All security areas are armed.
	Blinks	An alarm in an area.
	Off	All areas are disarmed.
 (blue)	On	The device is powered from the battery.
	Off	The device is powered from the main power supply (220V).
 (blue)	On	Operational power (12V or 220V) available
 (red)	On	All zones in non-armed areas are normal.
	Off	At least on zone in non-armed areas is not normalized or all areas are armed.
SIM1, SIM2 (on-board indicators)	On	The SIM card is in use.
	Off	The SIM card is not active.

## 7. Configuring and Getting Ready for Operation

To configure the device, connect to it using the most suitable way:

- **Desktop configuration.** To connect use a Micro-USB cable and the configuration software ritm.conf or Ritm Configure.
- **Remote configuration via digital GSM.** To connect use a GSM CSD channel and the configuration software ritm.conf or Ritm Configure.
- **Remote configuration via TCP/IP.** Using the GEO.RITM or RITM-Link software via a TCP/IP connection.



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.

1. Do not place the device in the vicinity of EMI sources, large metal objects and structures, power cable runs. The device installation location should have high quality GSM signal.

2. Prior to inserting a SIM card (two SIM cards can also be used) into the device, insert it into a mobile phone. Turn off the PIN code entry feature, check availability of data links that are to be used, and check if the SIM card account balance is positive. Perform the same actions to the second SIM card (if used).
3. Remove the SIM card from the phone and insert it into the SIM1 slot (the main SIM card) and the second (backup) SIM card insert into the SIM2 slot. Insert SIM cards only when the device power is off.
4. Open the top cover of the enclosure, connect the power supply, loops and actuation devices to the corresponding connectors (see section 5).



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

5. Insert cables into enclosure holes and close the top cover.
6. Supply the power and turn on the device.

## 8. 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.

## 9. 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.

## 10. 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.

## 11. 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.