ritm
SECURITY SOLUTIONS

Control panel

Contact GSM-9N

Data sheet

Device identification number

1. General Information

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

Transfer of messages to the central observation panel is done via a GSM network using GPRS, CSD and SMS channels.

2. Manufacturer:

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www.ritm.ru/en world@ritm.ru

3. Package Contents

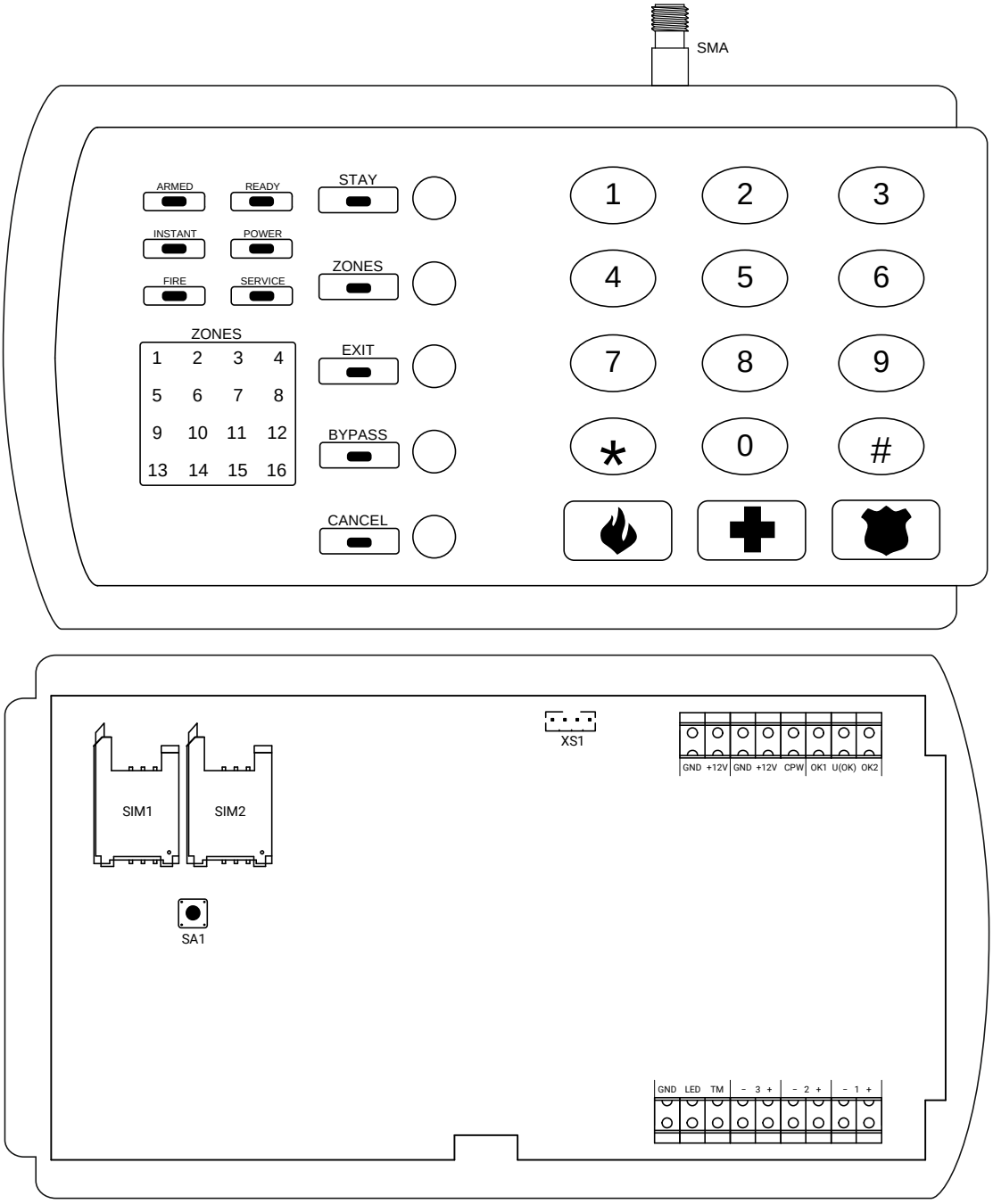
Contact GSM-9N control panel	1 pc
Resistor kit	1 kit
GSM-antenna[1]	3 pcs
Data sheet	1 pc
Packaging	1 pc

[1] For devices with external GSM antenna.

4. Technical Specifications

Parameter	Value
GSM, MHz	850/900/1800/1900
Communication channels	CSD, GPRS, SMS to personal phone, SMS ContactID
Status monitoring of communication lines (from the central monitoring station)	+
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 keypad	+
Arming/disarming from monitoring software	+ (in GPRS Online mode)
Arming/disarming with TM keys	+
Max. number of TM keys, pcs	16
Set-up of access codes and device number from keypad	+
Number of events in history	65535
Set-up of parameters using PC	+
Indication of GSM signal strength via keypad	+
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
Supply voltage, V	12±2
Main power supply availability monitoring	+
Current consumption, mA	standby mode: not exceeding 80
	data transmission mode: not exceeding 300
Dimensions, mm	160×100×30
Weight, g	not exceeding 300
Operating temperature range, °C	−30…+50

5. Designation of Elements



Element	Designation
SMA	Connector for external GSM antenna (not available in devices with built-in antenna).
CPW, +12V, GND	Device power supply terminals. Connect wire from CPW terminal to secondary winding of power source transformer or CPW terminal of Ritm power source.
+12V, GND	Terminals for powering security sensors (+12 V constant voltage is applied to connector when device is on).
+1-; +2-; +3-	Terminals for connecting loops: 3 of “dry contact” type or up to 6 resistive.
OK1, OK2, U(OK)	Terminals for connecting external actuation devices (visual indicators, relays, etc.) to bare collector outputs with maximum load of 300 mA. Siren can be connected to terminals OK2 and +U(OK), and visual indicator duplicating statuses of areas mapped to EXIT button can be connected to terminals OK1 and +U(OK).

TM, LED, GND	Terminals for connection a TM/Mifare reader and/or a temperature sensor with 1-Wire interface: • **TM** — input (positive) for connection of TM/Mifare signaling wire and temperature sensor yellow wire; • **LED** — output for connection of Touch Memory indicator; • **GND** — common for connection of Touch Memory reader black and blue (and/or black-blue) wire and temperature sensor black and red wire.
SA1	Enclosure break-in or supporting surface (i.e., wall) tear-off tamper of device.
XS1	Connector for USB-cable for communication with PC.
SIM1	Holder for connection of SIM card No. 1
SIM2	Holder for connection of SIM card No. 2

6. 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
	Off	At least on zone in non-armed areas is not normalized or all areas are armed
fire[2]	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 power or no signal in CPW
	Off	No power
service	Blinking	Non-transmitted events are available
	Off	All events are transmitted or event log is empty
stay	On	All areas mapped to the ‘perimeter’ button are armed
	Blinking	Alarm in any perimeter area
	Off	Perimeter areas are not armed or no areas mapped to perimeter
zones	On	Within 1 minute, statuses of zones with numbers 1–6 are shown, after which areas are shown (indicator goes off)
	Off	Area statuses are shown (default)
exit	On	Incoming delay countdown
	Blinking	Outgoing delay countdown
	Off	No delay countdown

[2] 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.

cancel	On	Turns on for 1 second when Cancel is pressed to confirm the pressing
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
For an armed area, a zone failure means an alarm in the area.		
TM Indication in Configuration Mode		
Blinks at 1 Hz		Device in configuration mode
On for 3 seconds		Key applied to reader has been read
TM Indication in Standby Mode (Area Status)		
Off		Area disarmed
On		Area armed
Blinks at 1 Hz		Alarm in area
On for 3 seconds		TM key registered in device memory has been read

TM ignore time is 3 seconds.

7. Designation of Buttons

Button	Designation
stay	Arming or areas mapped to the ‘perimeter’ button
exit	Arming or areas mapped to the ‘exit’ button
zones	The ‘zones’ button is pressed: Statuses of zones 1–6 are shown The ‘zones’ button is not pressed: Statuses of areas 1–6 are shown
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

8. Configuration

8.1. 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, if the used device modification features this setting.
- **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, if the used device modification features this setting and 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) 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-9N. 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 circuits with actuation devices (relays, LEDs, sirens, etc.) t, and, if necessary, the TM/Mifare reader.

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

9.5. If necessary, connect the security sensor power terminals to the sensors power connector.

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 power supply circuit to the power supply connector. Connect the wire from the CPW terminal to the secondary winding of the power source transformer. If the wire from the CPW terminal is not connected, the device does not monitor the main power (220 V). If the device is connected to a Ritm power supply, connect the wire from the CPW terminal to the CPW terminal on the power source board.

9.8. Securely fasten the back enclosure cover with a screw and close it.

9.9. Install a GSM antenna to the SMA connector (for devices with an external GSM antenna).

9.10. Turn on the power source.

9.11. Configure the device.

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.