

Control panel

Contact GSM-9A

Data sheet

Device identification number

1. General Information

The Contact GSM-9A 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.

2. Manufacturer:

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

3. Package Contents

Contact GSM-9A control panel ¹	1 pc
GSM-antenna	1 pc
Cut-in Touch Memory reader	1 pc
Resistor kit: MF-25 – 0.25-8.2 kOhm	6 pcs
Resistor kit: MF-25 – 0.25-5.1 kOhm	6 pcs
Loop for indication board connection	1 pc
Data sheet	1 pc
Packaging	1 pc

¹ The device is delivered in the “Contact” 1.2 Ah enclosure or in the “Contact” 7 Ah enclosure!

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
Number of input loops, pcs	up to 3 of "dry contact" type or up to 6 resistive
Number of bare collector outputs (with 300 mA maximum load), pcs	2 (for controlling actuation devices)
Max. number of TM keys, pcs	16
Number of events in history	65535
Set-up of parameters using PC	+
Arming/disarming with TM keys/smart-cards	+
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)
Main power source voltage, V	220
Backup power source voltage, V	12±2
Max. power consumption from battery 12V, V·A	3
Nominal power consumption from battery 12V, V·A	2
Max. power consumption from 220V, V·A	7
Dimensions, mm	108×142×42
Weight, g	320
Operating temperature range, °C	-30...+50



Invalid the device operation in conditions of condensation!

5. Designation of Elements

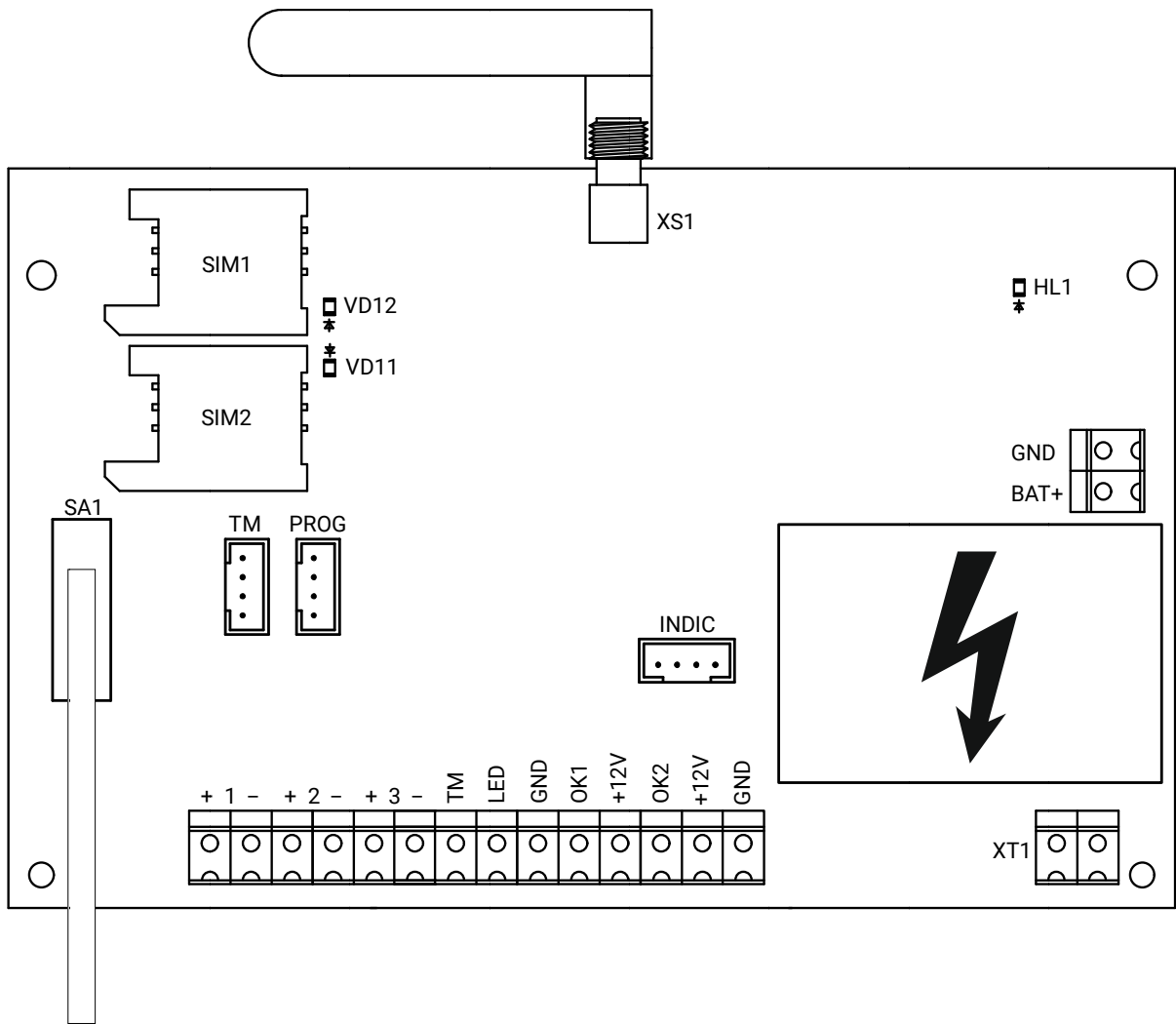


Figure 1. Device board

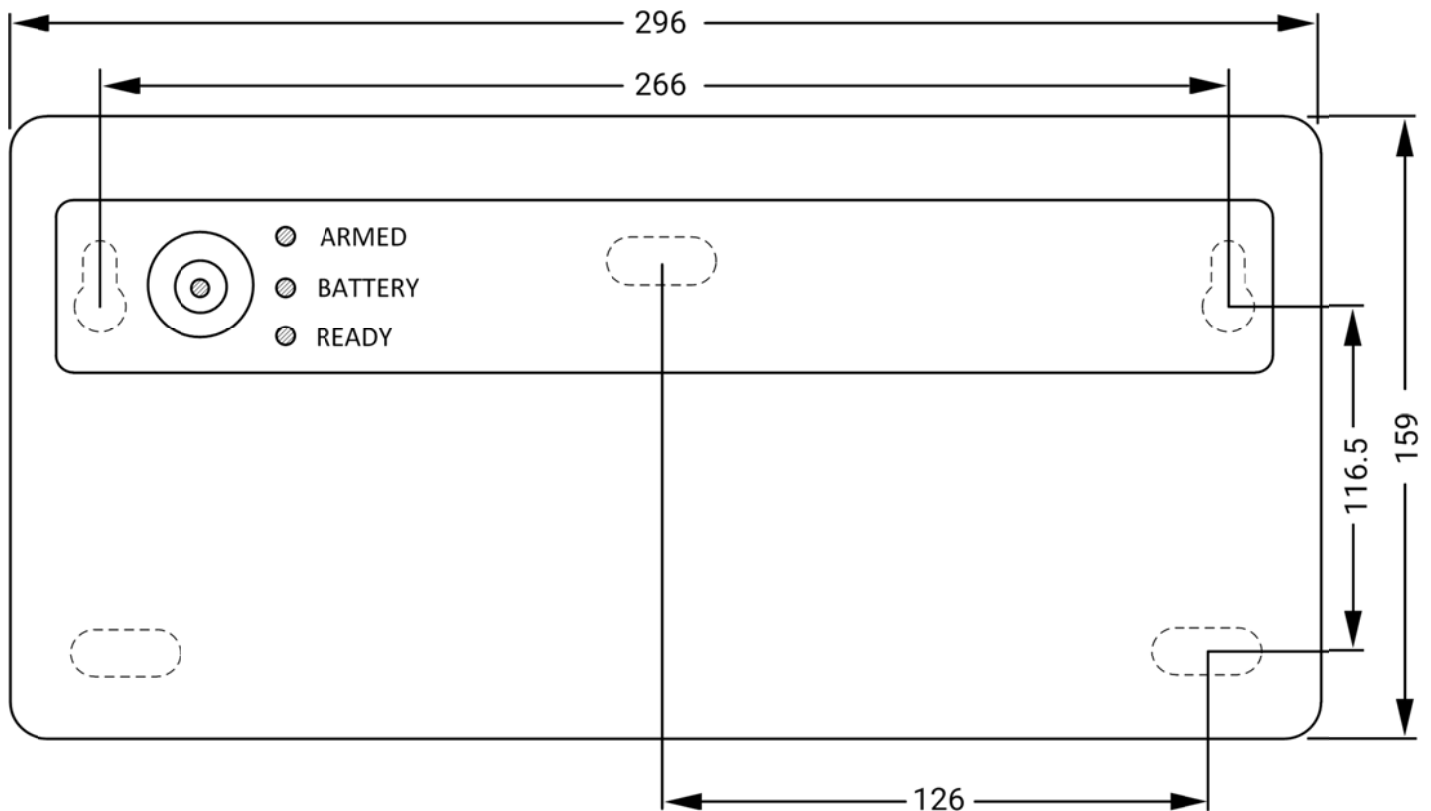


Figure 2. "Contact" 1.2Ah enclosure

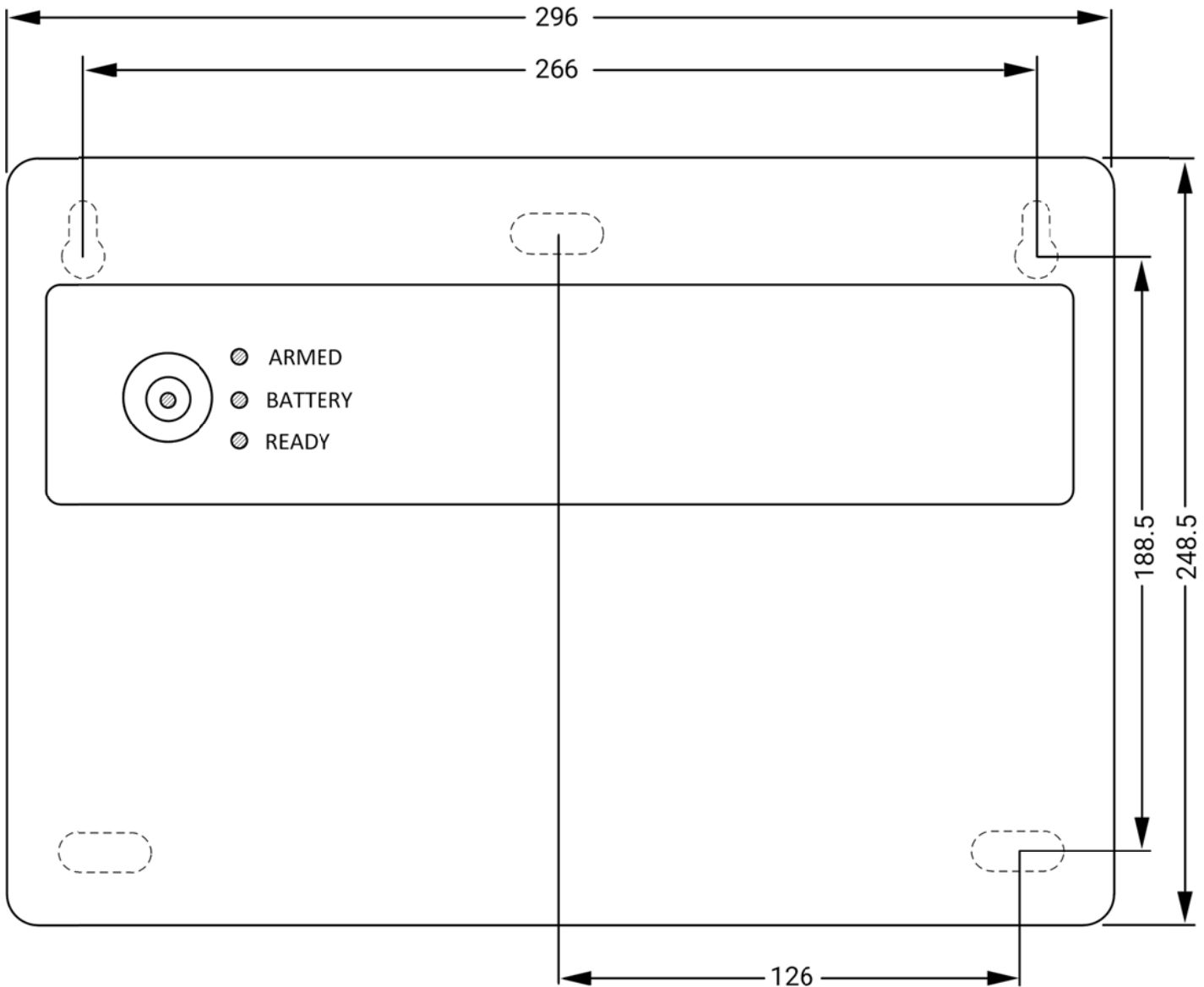


Figure 3. "Contact" 7Ah enclosure²

Element	Designation
XS1	GSM antenna connector
XT1	220V power supply connector
OK1, OK2, +12V	Connectors for actuation devices. The OK1, OK2 terminals are negative and the +12V terminal is positive for the device
+1-; +2-; +3-	Terminals for "dry contact" type and resistive loops connection
+12V, GND	Terminals for power supply security sensors (+12 V constant voltage is applied to the connector when the control panel is on)
GND, BAT+	Lead-acid battery connector The GND terminal is negative and the BAT+ terminal is positive for the battery
SIM1, SIM2	SIM-card slots
PROG	Configuration cable connector
TM	Connector for Touch Memory reader connection using a loop
INDIC	Connector for indication board connection (on the enclosure)
VD9, VD10	Active SIM card indicators

² Dashed lines indicate holes for surface enclosure fastening. All dimensions are in mm.

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"> • 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	Tamper



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

6. Visual Indication

Indicator	State	Designation
On-board indicators		
VD11, VD12	On	The SIM card is in use.
	Off	The SIM card is not active.
HL1	On	Incorrectly connected battery.
Visual indication		
ARMED	On	All security areas are armed.
	Blinks	An alarm in an area.
	Off	All areas are disarmed.
BATTERY	On	The device is powered from the battery.
	Off	No voltage on the terminals GND, BAT+ .
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.
TM reader indication in Configuration Mode		
Blinks		The device is in configuration mode.
On for 3 seconds		The key applied to the reader has been read.
TM reader indication in Standby Mode		
Off		The area is disarmed.
On		The area is armed.
Blinks		An alarm in the area.
On for 3 seconds		The TM key registered in the device memory has been read.

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, 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.



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.

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. Install the device into the enclosure.
5. Connect external indication and the TM reader to the **INDIC** and **TM** connectors of the device accordingly.
6. If necessary, connect TM/Mifare reader and/or a temperature sensor to the connectors **TM, LED, GND**.



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

7. Connect the battery to the **GND, BAT+** terminals and a 220V power supply to the **XT1** connector or connect an external 12V power source to the **+12V, GND** terminals.
8. Connect actuation devices if necessary.
9. Connect loops to connectors (terminals) of inputs.
10. 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.