

Control panels
Contact GSM-5-2
Contact GSM-5-2 3G

Data sheet

Device identification number

1. General Information

The Contact GSM-5-2 and Contact GSM-5-2 3G control panels (hereinafter referred to as the device) are designed for setting up security at remote real estate objects of any complexity: apartments, offices, country houses, and garages.

2. Manufacturer

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3. Package Contents

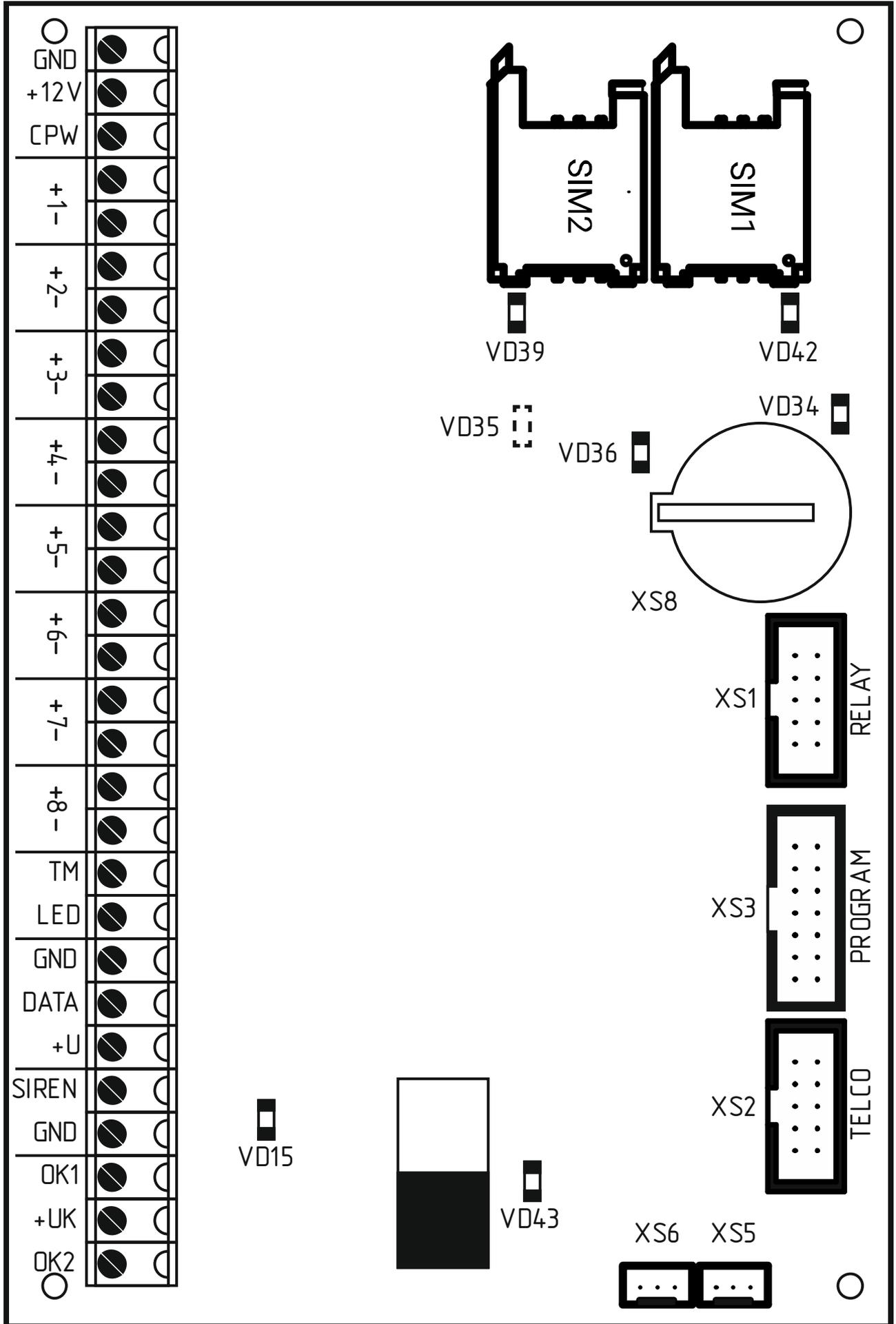
Contact GSM-5-2 or Contact GSM-5-2 3G control panel	1 pc
GSM antenna	1 pc
Resistors	1 kit
Data sheet	1 pc
Packaging	1 pc

4. Technical Specifications

Parameter	Value
Standards	GSM 850/900/1800/1900 MHz UMTS/HSDPA 900/2100 MHz¹
Communication channels	GSM network (SMS, CSD, GPRS, EDGE, WCDMA ¹); Phone network (PSTN); LAN (Ethernet)
GSM antenna gain, dB	1 (vertical polarization)
Protocol of data exchange with central monitoring stations	Ademco ContactID
Number of wired input loops, pcs	8 (up to 16 ribbon cables)
Number of non-programmable outputs (with bare collectors), pcs	2 (with 300 mA maximum load)
Separate output for external siren	+
Number of keypads, pcs	15
Maximum distance to keypad, m	300
Arming/disarming with Touch Memory keys	+
Arming/disarming with keypads	+
Arming/disarming from monitoring software	In GPRS Online mode; In LAN Online mode (optional)
Non-volatile memory, events	65 535
Setup via universal cable	+
Remote setup via GSM CSD	+
Power supply availability monitoring	+
Supply voltage, V	12±2
Power consumption in standby mode, mA	Not exceeding 250 (with using resistive ribbon cables)
	Not exceeding 650 (with using 'dry contact' ribbon cables in the normally closed mode)
Power consumption in transmitting mode, A	Not exceeding 1
Operating temperature range, °C	-30...+35
Normal device heating temperature when using 'dry contact' ribbon cables at room temperature in plastic enclosure, °C	Up to 65
Dimensions, mm	160×100×30
Weight, g	Not exceeding 300

¹ For Contact GSM-5-2 3G only.

5. Designation of Elements



Element	Designation
Device Power	
GND, +12V, CPW	<ul style="list-style-type: none"> • +12V: Terminal for positive wire connection; • GND: Ground; • CPW: Connect to the secondary winding of the power source transformer.
Protective (fire protection ribbon cables)	
"+1—" ..."+8—"	Up to 8 fire protection or 'dry contact' ribbon cables may be connected to the device (magnetic contact sensor, tamper, panic button, etc.) or 16 protective ribbon cables. Each ribbon cable's circuit includes a shunt (terminal) resistor with the rated resistance 10 kΩ installed on a board.
Control 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"> • 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.
GND, DATA, +U	Terminals for connection of an external keypad and/or a 'smart relay card'. <ul style="list-style-type: none"> • DATA: A signal (output) for connection of a keypad and/or relay card; • +U: A (positive) output for powering a keypad and/or relay card; • GND: Common.
Indication Devices	
SIREN, GND	Terminals for connection of an external siren. Maximum current consumption – 300 mA. <ul style="list-style-type: none"> • SIREN: Terminal for positive (plus) siren lead connection; • GND: Common.
OK1, +UK, OK2	Output terminals with bare collectors for connection of actuation devices (sirens, relays, etc.) with the maximum current consumption 300 mA. They operate in parallel to relays 4 and 5 of the external relay card. <ul style="list-style-type: none"> • OK1: Output 1 (negative terminal) with a bare collector; • OK2: Output 2 (negative terminal) with a bare collector; • +UK: Power (positive terminal) for connected actuation devices.
XS1 (RELAY)	Connector for a relay card.
Data Transmission Devices	
XS2 (TELCO)	Connector for 'Phone line wired modem'.

XS3 (PROGRAM)	Connector for programming cable ('USB+COM (USB2, COM) cable for communication with PC') or Contact LAN security panel.
XS5 and XS6	Connectors for listening to exchange signals (transmitted over phone line or GSM network) between device and central observation panel (of monitoring stations) using 'Evaluation kit No. 2', for instance.
XS8	Box for connection of battery. When battery is extracted from device, system time in internal clock is reset.
SIM1	Holder for the first SIM-card.
SIM2	Holder for the second SIM-card.



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

6. Visual Indication

Indicator	State	Note
VD36	On	External power available.
	Off	The modem is inactive.
VD34	Blinks very frequently	The device is connected to the monitoring server.
	Blinks frequently	Registration in GSM network.
	Blinks slowly	The device modem has successfully registered in the GSM network.
	Off	The device modem is switched off.
VD42/VD39	On	SIM card used.
	Off	SIM card not used.
VD15	On	Alarm. The outputs are activated.
	Blinking	Fire alarm ² . The outputs are activated and blink.
	Off	Outputs are inactive.
VD43	On	12 V main power supply available.
	Off	No power.
VD35	On	The device is faulty.
	Off	The device is functioning correctly.

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.

7. Configuration

- 7.1. 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.

- 7.2. In case of desktop configuration install all necessary USB cable drivers.
- 7.3. In case of desktop configuration or remote configuration via a CSD channel run the “Connection Wizard” from the manufacturer’s website.
- 7.4. 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.
- 7.5. Set up all parameters of the device according to the specifics of the protected object, while referring to the “Contact GSM-5-2. User manual” instruction.

8. Getting Ready for Operation



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 a strong GSM signal. We recommend configuring the device before it is installed on the site.

- 8.1. If necessary, insert the device into the enclosure (not supplied in the package).
- 8.2. Place the GSM antenna in a GSM reception area, where the signal is strong and stable enough.
- 8.3. Connect circuits with actuation devices (sirens, displays) to the terminals OK1, +UK, OK2.
- 8.4. If necessary, connect keyboards to the terminals DATA, GND, +U.
- 8.5. If necessary, connect the relay card to the RELAY connector.
- 8.6. If necessary, connect the wired modem to a phone line using the TELCO connector.

- 8.7. If necessary, connect TM/Mifare reader and/or a temperature sensor to the terminals 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.

- 8.8. Insert SIM cards into the device. Prior to inserting a SIM card 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). Extract the SIM card from the phone and insert it into the SIM1 box (the second SIM card should be inserted into the SIM2 box). **Insert SIM cards only when the device power is off.**
- 8.9. Connect the power source to the terminals +12V, GND. 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.
- 8.10. Turn on the power source.
- 8.11. Close the enclosure cover (if available).

9. Maintenance and Safety Measures

At least once per month check SIM card accounts for funds. Periodically, at least twice a year, check the reliability of contacts and, if necessary, clear their bonding areas.

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. Manufacturer's Warranties

The manufacturer guarantees that the device complies to requirements of the technical specifications, provided the user 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.

12. Information on Claims

In case of a device failure or defect during the warranty period, please fill out a malfunction report specifying the dates of the release and when the device was installed as well as the nature of the defect and submit it to the manufacturer.