

Central monitoring station

**GSM/USB**

**PCN1P-GSM**

Data sheet

Device identification number

## 1. General Information

The central monitoring station GSM/USB (hereinafter referred to as device) is designed for receiving messages through digital (CSD) and voice (DTMF) channels of the GSM network from object panels of different manufactures via Ademco ContactID protocol.

## 2. Manufacturer

**RITM Company**  
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## 3. Package Contents

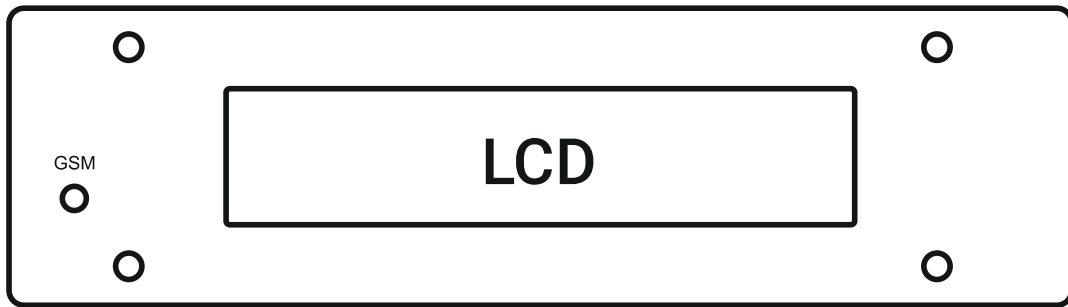
GSM/USB central monitoring station	1 pc
Power cable 220V	1 pc
Cable RS-232	1 pc
Cable USB	1 pc
Antenna SMA	1 pc
Data sheet	1 pc
Package	1 pc

#### 4. Technical Specifications

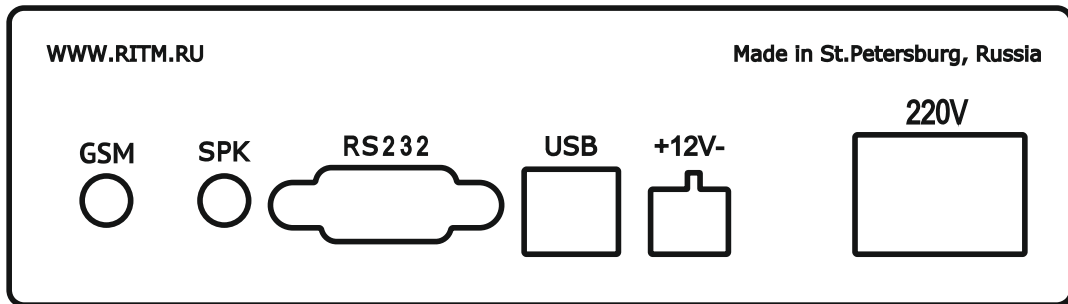
Specification	Value
Communication line	GSM network
GSM communication channel frequency, MHz	850/900/1800/1900
SIM-cards type	MiniSIM
Quantity of SIM-cards	1
Radiated power, W	2 (at frequency 900 MHz)
	1 (at frequency 1800 MHz)
Transmission type through GSM network	Digital (CSD) Voice (DTMF)
Data exchange protocol for control panels	Ademco ContactID
Data exchange protocol for monitoring software server <sup>1</sup>	Surgard
Object control panels	Ritm, ISECO, Ademco, Paradox, C-Nord, Visonic, Naviguard and other software supported Ademco ContactID
Monitoring software server connection method	COM port (RS-232 or USB)
Memory	30 events
Supply voltage, V	12±2
Energy consumption, A	max 0.15 in standby mode
	max 1 in receipt mode
Dimensions, mm	47×156×150
Operating temperature range, °C	-40...+50

<sup>1</sup> Enables to use at the server any third party software (WinSAMM, Terminal, Andromeda, Paradox etc.)

## 5. Designation of Elements



Device front panel



Device back panel

Items	Designation
<b>GSM</b>	Operating mode LED indicator
<b>LCD</b>	LCD
<b>GSM</b>	SMA connector for GSM antenna connection
<b>SPK</b>	Connector for speakers
<b>RS232</b>	Connector for computer connection via RS-232 cable
<b>USB</b>	Connector for computer connection via USB cable
<b>+12V-</b>	Connector for external power connection +12V
<b>220V</b>	Connector for mains power connection 220V, 50Hz

## 6. Visual Indication

GSM Indicator state	Mode
1 flash per sec	Device modem not registered the network
1 flash per 3 sec	The device modem registered to the network
Off	The device modem is switched off

The LCD shows all details required for operation.

## 7. Getting Ready for Operation

1. Turn off the PIN request for the SIM-card. Install the SIM-card into the phone and cancel PIN request in the phone menu.
2. Switch off device power.
3. Open the device enclosure.
4. Insert the SIM card into the holder.
5. Close the device enclosure.
6. Connect the GSM antenna to the GSM connector.
7. Connect the device to a monitoring server via USB- cable (USB connector) or RS-232 (RS232 connector).
8. Install the device in the preferred location. 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.
9. Connect the mains power cable to the 220V connector and a 12V backup power source to the +12V- connector.



When the main power (220V) fails the device automatically switches to the backup power supply (12V).

10. Power on.
11. To work with the RITM-Link program use the virtual COM-port. Add an incoming stream through communication channel TCP/IP. Specify Surgard as the protocol.



Note that the monitoring station supports only a 4-digit number transmitted by the device in the Ademco ContactID parcel as an object device ID.

## 8. Device Operation Algorithm

1. Registration at the GSM network.
2. Switching to the waiting mode of incoming calls from security panels.
3. Upon incoming call show the caller number (SIM-card) on the display.
4. Connecting a call with error correction (setup call settings in the device configuration software).
5. Alternative output of event digital codes to the display.
6. Transmission of event data to the COM-port.
7. Disconnecting the station and the panel and switching to the section 8.2.

## 9. Maintenance and Safety Measures

At least twice a year, check the state of contacts and input leads in order to avoid mechanical defects. If necessary, clean the bonding pads and remedy wire insulation issues. At least once a month, check the availability of funds in the account of the SIM-card.

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

## 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 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 shall not be responsible for quality of data links provided by GSM service providers.

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.

**For Notes**

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