RControl-LA

Smart Hybrid Alarm System

Installation and Programming Guide

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About this document

This document was developed and wholly owned by M2MServices. It is intended to facilitate trained personal with the installation of RControl-LA Alarm system. M2M Services reserve the right to modify and revise this manual without notice.

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The user agrees that despite the Device could reduce the risk of fire, theft, burglary or other dangers, it does not guarantee against such events. M2M Services LTD will not take any responsibility regarding personal, property or revenue loss while using the Device. M2M Services LTD responsibility according to local laws does not exceed the value of the purchased system. M2M Services LTD is not affiliated with GSM operators providing cellular services, therefore is not responsible for network services, coverage or its operation.

Manufacturer Warranty

The Device carries a non-transferable hardware limited warranty by the manufacturer M2M Services LTD. This warranty does not cover any postal or labor costs for the removal and reinstallation of the Device. This warranty does not cover any subscriber agreements or failure of services provided under the terms of such subscriber agreements, or failure of cellular, GPRS, LAN or other related networks functions and services. The warranty does not apply to any Device that has been modified or used in a manner contrary to its intended purpose and does not cover damage to the Device caused by installation or removal of the Device or any of its components. This warranty is voided if the Device has been damaged by improper maintenance, SIM card removal, accident or unreasonable use, negligence, acts of God, neglect, improper service or other causes not arising out of defect in materials or construction. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak signal reception, damage to software, accessories or alarm system external components, cosmetic damage or damage due to negligence, misuse, abuse, failure to follow operating instructions, accidental spills or customer applied cleaners, damage due to environmental causes such as floods, airborne fallout, chemicals, salt, hail, windstorms, moisture, lightning or extreme temperatures, damage due to fire, theft, loss or vandalism, damage due to improper storage and connection to equipment of another manufacturer, modification of existing equipment, faulty installation or short circuit.

In no event will M2M Services LTD be liable for any incidental, special or consequential damages (including loss of profits), and the Client shall have no claim against M2M Services LTD   for termination of contracts, indemnification, compensation for loss of customers, loss of profits, prospective profits, distribution rights, market share, goodwill, investments made or any similar losses that may result from any faults in the operation of the Device and the services provided by M2M Services LTD.

Safety Instructions for Service Personal

- This unit must be checked by a qualified technician once a year.
- Do not use the Device with medical devices, or where it can interfere with other devices and cause any potential danger.
- Do not expose the Device to high humidity, chemical environment or mechanical impacts.
- Do not use the Device in hazardous environment. Don't store or install the Device in overheated, dusty, wet or overcooled places.
- The Device is mounted in limited access areas. Any system repairs must be done only by qualified, safety aware personnel. Don't disassemble or refit the Device. Do not attempt to personally repair it.
- Main powers must be disconnected before any installation or tuning work starts. The device installation or maintenance must not be done during stormy conditions.
- Blown fuses or any other components of the Device must not be replaced by the user.
- Keep the Device dry. Any liquid, i.e. rain, moisture, may destroy or damage the inside circuitry.
- Handle carefully. Don't vibrate or shake it violently.
- Clear the Device with a piece of dry cloth. Don't clean in chemicals, detergent.
- Please read the user manual carefully before installation and operation of the Device. Otherwise, it may not work properly or be destroyed.

Product Description

Features

The RControl-LA Alarm system is a 2-partition, control panel with the following features:

- Built-in GPRS communicator
- Remote control via Smartphone
- 2 Partitions
- 8 Wired zones (16 with zone doubling)
- 32 Wireless zones
- Supports up to 16 keyfobs
- 1 bell output and 1 programmable output (open collector 200mA)
- Short circuit protection of the AUX

Specifications

Flexible Zone Configuration	• 8 hardwired zones (up to 16 if zone doubling is used) • Up to 32 wireless zones • One master code: 0000 • 19 zone types • Normally Closed, single EOL, double EOL zone wiring • Zone doubling
Audible Alarm Output	• 200 mA Bell Output (current limited at 350 mA) 12 VDC • Steady or Pulse output
Programmable Outputs	• One programable output 200 mA
Power Requirements	• Battery = 12 V 2.6 Ah minimum rechargeable sealed lead battery
Digital Communicator Specification	• Built-in digital communicator • Frequency Dual band UMTS/HSPA 850/1900 MHz
RF receiver	• 345 MHz
System Supervising Features	• AC power failure • Fault by zone • Failure to communicate • AUX Power supply trouble • Low battery condition (panel) • Low battery by zone (wireless)
Dimensions	9.65"x7.68"x1.77"
Weight	2.87 lb. with battery
Environmental	Operating temperature: 0°C to 49°C (32°F to 120°F) Humidity: 0 to 85% relative humidity, non-condensing

Installation

• It is advised that an experience alarm installer install and program the panel. It is required to ensure proper performance and use of the full functionality.
• The wiring should be done only when the panel is power down.
• Do not rout any field wiring over the circuit board.
• For Dry/Indoor use only.

Mounting Instructions

Choose Location

- Mount the panel in an indoor dry area.
- Do not choose location that is below ground level, as this can impair wireless reception.
- Do not choose location that can be easily viewed from outside the premises.

The Control Panel should be mounted on the wall in an easy location for the user to operate with system.

1. Remove the locking screws from the top of the Control Panel case.
2. Use the back side of the enclosure as a template and mark the holes on the mounting surface. Pre-start the mounting screw (not supplied) for the middle hole. Slide the box onto this screw. Use the build-in level to adjust the enclosure. Tighten the screw. Install the rest of the screws (not supplied).
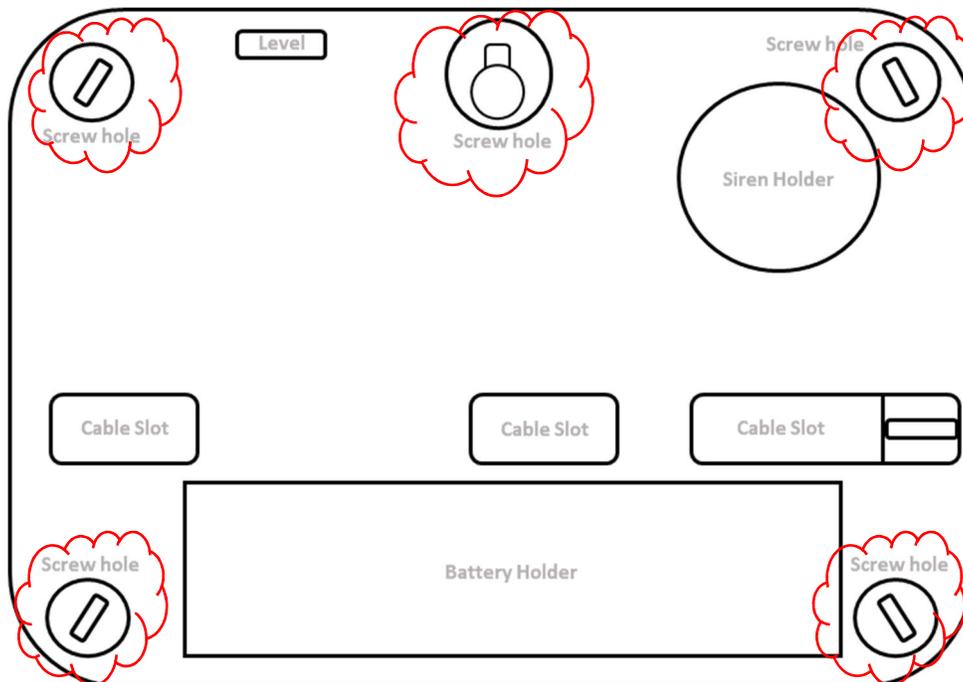
Antenna

The standard antenna provided with the control panel, must be mounted inside the panel.

The antenna is supplied with SMA connector, that allows easy connection to the panel. The antenna should be position perpendicular to the ground. Try to keep the antenna away from sources of RF interference or where metal objects can shield it or otherwise block the cellular radio RF signal.

WARNING : The internal antenna used with this product must be installed to provide separation distance of at least 7.8 in (20cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except in accordance with FCC multi-transmitter product procedure.

NOTE: Antenna problems are rare unless the premises are in an area with poor network coverage, in a building below ground, or in a metal structure.

Do not use the unit with a damaged antenna. Have your antenna replaced immediately. Use only a manufacturer approved antenna. Non-approved antennas or modifications could impair service quality, damage the device and violate FCC regulations.

Keypad

Mount the keypad where it is accessible, in a dry and secure location. Perform the following steps to mount the keypad:

- Remove the keypad front plate by inserting a screwdriver into the slots located on the top of the keypad.
- Remove the keypad backplate by inserting a screwdriver into the slots located near the bottom of the back plate and prying up to remove the backplate.
- Secure the keypad backplate to the wall in the desired location. Lift the keypad door. Use all screw provided. Use the plastic anchors supplied if the unit is to be mounted on drywall.
- To use the keypad tamper, insert the supplied tamper to the wall with a screw.
- For tamper use, the backplate should be mounted on a smooth, flat surface. If mounting is on rough surface, fasten the enclosed surface tape to the wall to eve out the surface area where the tamper will be positioned.
- Before attaching the keypad to its backplate, complete the keypad wiring as described in the next section.

Backup Battery

In the event of an AC power loss, the system is supplied with backup battery that is supervised for connection and low voltage conditions. This information is available to the monitoring station and the M2M platform.

NOTE: On a typical installation the battery will last for at least 24 hours.

Wiring Instructions
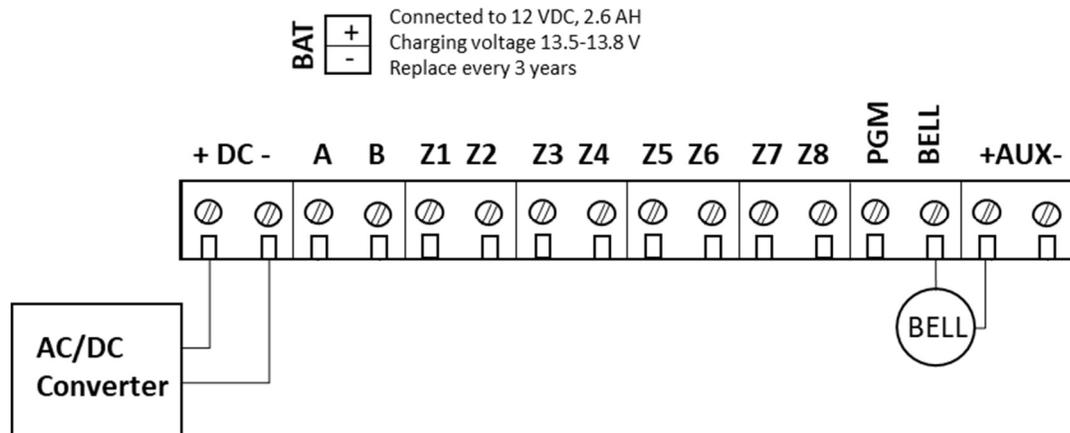
Power Supply Module

- The L and N terminals should be connected to the powerline (220V)
- The -V output should be connected to the (-) of the alarm panel
- The +V output should be connected to the (+) of the alarm panel

Battery

Plug the battery connector into the connector on the control panel's circuit board. Plug the red cable to the (+) of the battery and the blue one to the (-) of the battery. Ensure the battery is connected to correct polarity. Failure to comply with this may result in battery rupture and/or fire hazard.

Siren

The siren should be connected to AUX (+) and BELL (-). The programmable output for the siren BELL (-) is an open collector 200mA.

Wireless keyfobs

Supported functions

The wireless keyfob has 4 buttons - Full Arm, Home Arm, Disarm and Panic. By default, only the Full Arm and Disarm buttons are active.

To enable the STAY Arm button, you need to have at least one STAY zone. Please refer to the "Configuring the zones" section.

To enable the Panic button of the keyfob, please refer to the "Configuring the panic button" section.

Pairing a wireless keyfob

The RControl Alarm panel supports up to 16 wireless keyfobs. Two keyfobs are included in the standard kit and they are already paired.

To use additional keyfobs you should first pair them with the alarm panel.

NOTE: To be able to enter learning mode, make sure that the panel is DISARMED!

To enter learning mode, press the "PAIR" button of the RF receiver of the panel. The red LED indicator of the RF receiver will turn ON. Press any button of the wireless keyfob (hold the button at least 1 sec). The siren will beep once, which indicates that the keyfob was paired and the procedure was successfully completed.

NOTE: It's recommended to pair the keyfob with Disarm button. In this way, you will not arm the panel by mistake, which will not allow you to pair the next keyfobs before you disarm the panel.

The learning mode lasts 30 seconds. If the receiver does not receive signal from the keyfob in the timeframe of 30 seconds, the pairing procedure will be terminated. The siren will beep 4 times to indicate an error.

When a new keyfob is paired, the panel reports an event "Access Granted, User N" with ContactID E-422. Each keyfob reports with different user number (starting from 101).

You need to repeat the pairing procedure for each additional keyfob.

NOTE: To allow the panic button on the keyfob please refer to section "Configuring the panic button".

Assigning a keyfob to different partition

By default, the keyfob controls the first partition after the pairing procedure. If there is a more than one partition set, you can set the keyfob to control a partition. To do that, log in the RControl Admin Portal, navigate to RControl Alarm menu, section Keyfobs and choose the desired Partition for each keyfob.

NOTE: By default, each keyfob controls only one partition. If you want to control both partitions with a single keyfob, choose Partition=All for that keyfob in the RControl Admin portal. The buttons of the keyfob from the upper row will control Partition 1, the buttons from the lower row will control Partition 2. You will not be able to use Home Arm and Panic features of that keyfob.

Disabling a wireless keyfob

If a paired keyfob is lost, you can disable it from the RControl Admin Portal. To do that you have to navigate to RControl Alarm menu, section Keyfobs and set "Enable" property to NO for the keyfob that you want to disable.

Deleting all wireless keyfobs

To delete all the paired keyfobs, hold the "PAIR" button of the RF receiver until the LED indication of the receiver goes off. After the LED indicator goes OFF and you hear a one-time confirmation sound from the siren, ALL the paired keyfobs will be deleted from the receiver memory.

To delete a single keyfob use the RControl admin portal.

NOTE: This procedure will delete   all paired   keyfobs! To pair them again, you should repeat the pairing procedure for each keyfob.

Labelling the keyfobs

Each keyfob reports with different user number in the range between 101-116. When pairing the keyfobs they automatically receive labels "Keyfob 101 – Keyfob 116". These labels appear in the mobile application when arming/disarming with keyfob.

You can change the keyfob labelling anytime from the RControl Admin Portal by navigating to RControl Alarm menu, section Keyfobs. The End User can also change the labeling from the mobile application by navigating to Settings menu, section Labels if the End User is a Master User.

Configuring the panic button of the keyfob

Besides the option of configuring a 24h Panic zone of the panel, you can also use the built-in panic button of the wireless keyfob. This function is disabled by default. You can enable the panic button of the keyfob from the RControl Admin Portal, Device Dashboard -> RControl Alarm Settings, "Modules" section.

NOTE: Each keyfob can be assigned to only one partition.

Wireless detectors

> NOTE : All signal initiating devices is required to transmit a check-in signal at interval not exceeding 80 minutes.
>
> Any transmitter shall be limited to serving a single initiating device.
>
> Retransmission devices (repeaters and/or transceivers) are not allowed to be used.

Pairing a wireless detector

The RControl-LA Alarm panel supports up to 32 wireless detectors. You need to perform the pairing procedure for each wireless detector.

> NOTE: You cannot pair detectors while the system is armed. Before entering learning mode first make sure that the panel is   DISARMED!

- To enter learning mode for the wireless detectors, press the "PAIR" button of the panel for at least 1 sec (until the red LED indicator is steady ON).
- Activate the wireless detector as many times as required, until the panel recognizes the sensor.
- When the sensor is successfully enrolled, the panel will beep once and the red "PAIR" LED will turn off. The siren will beep four times if there was an error during the pairing.
- When a new detector is successfully paired, the panel reports an event "Module Added, RF Zone N" with Contact ID E-531.
- Repeat the above steps for each wireless sensor you want to enroll.

> NOTE: If after pressing the "PAIR" button and the RF receiver does not receive any signal from the wireless keyfob/detector within 10 seconds, the pairing procedure will be automatically canceled. The siren will beep 4 times to indicate an error.

Pairing ECOLING WST-702 PIR Motion Sensor

This detector enters in learning mode when you hold down the tamper button on the sensor while inserting the battery. The red LED will begin to flash. After 30 seconds the LED will stop flashing and you can trigger the sensor by waiving your hand in front of it. Wait about 10 seconds until the red LED on the sensor turns OFF. Activate the sensor as many times as required, until the panel recognizes the sensor. When the sensor is successfully enrolled, the panel will beep ones and the red "PAIR" LED on the panel will turn OFF.

Disabling a wireless detector

You can disable single wireless sensor from the RControl Admin portal. Go to the RControl Alarm menu, Zones tab, and choose Zone type = Disable for that sensor.

Deleting a wireless detector

You can permanently delete single wireless sensor from the RControl Admin portal. Go to the RControl Alarm menu, RF Zones, and select the zone for that sensor and press Delete (bottom left corner of the window).

NOTE: If you delete a sensor, you must pair it again to be able to use it again.

Deleting all keyfobs and wireless detectors

NOTE: This procedure will delete   all paired keyfobs and wireless detectors   ! To pair the keyfobs and the wireless detectors again, you should repeat the pairing procedure for each keyfob and detector. If the panel is   ARMED,   the deleting procedure will fail. The siren will beep 4 times to indicate an error.

All the other settings will not be deleted, e.g. Entry/Exit Delay time, Partition configurations etc. If you want to change those setting you must log in the RControl Admin Portal.

Press and hold the "PAIR" button of the RF receiver 3 times for about 10 seconds, until the LED indicator goes OFF each time. This will delete ALL the paired keyfobs and wireless detectors from the memory, after the third long press.

Wired detectors

SMARTEnroll wired detector

The RControl-LA Alarm panel supports up to 16 wired detectors. You need to perform the pairing procedure for each wired detector.

You can configure each zone manually as describe in section "Configuring Zones". However, you can also automatically enroll wired sensors as instant zones using the SMARTEnroll feature.

NOTE: You cannot pair detectors while the system is armed. Before entering learning mode first make sure that the panel is   DISARMED!

- Connect the detector as described in section "Hardwired loop wiring".
- To enter learning mode for the wired detectors, press the "PAIR" button of the panel for at least 1 sec (until the red "PAIR" LED is steady ON).
- Activate the wired detector as many times as required, until the panel recognizes the sensor.
- When the sensor is successfully enrolled, the panel will beep once and the red "PAIR" LED will turn off. The siren will beep four times if there was an error during the pairing.
- When a new detector is successfully paired, the panel reports an event "Module Added, Zone N" with Contact ID E-531.
- Repeat the above steps for each wired sensor you want to enroll.

NOTE: If after pressing the "PAIR" button and the RF receiver does not receive any signal from the wired detector within 10 seconds, the pairing procedure will be automatically canceled. The siren will beep 4 times to indicate an error.

Disabling a wired detector

You can disable single wired sensor from the RControl Admin portal. Go to the RControl Alarm menu, Zones tab, and choose Zone type = Disable or SMARTEnroll for that sensor.

NOTE: If you choose zone type Disable, you will not be able to use the SMARTEnroll feature for that zone.

Programming

In general, the alarm panels are preconfigured with a template according to the needs of each customer.
If any changes to the basic configurations are needed you can apply them from the RControl Admin
Portal https://www.m2mservices.com/admin   by logging with your administrative credentials.
You can find the alarm panel by its serial number or by account number, IMEI, etc.
Select the RControl Alarm System, press the right button and choose "RControl Alarm" menu.

General settings of RControl Alarm

- Account Number   – in the field "Account No" you must fill the number with which the panel will report to the central monitoring station. The Account No. must be 4-digits long. By default, the alarm panel is configured to report with Account No. "0000".

- Periodical tests interval   – in this field you can configure the interval for the periodical test messages (in seconds), that the alarm panel will send.

NOTE: This interval is different from the interval configured for the supervision of the GPRS connection –
the "heartbeat interval". The connection is supervised on every 10 minutes by default whereas the
periodical tests are usually sent every couple of hours (e.g. 12 or 24 hours).

- Configuring a delay in case of mains power outage   – in the field "Delay", section "Main Power" you can configure the delay (in seconds) after which the device will report the mains power outage.

- Configuring the Battery level thresholds -   In section" Battery", field "Battery low" you can set a low voltage threshold, under which the alarm panel will send "Low Battery" event. In the filed "Battery Critical Low" you can set even lower voltage threshold and if the battery voltage goes under this level, it will be considered as critically low.

To preserve the battery from permanent damage, you can configure the panel to shut down automatically
if the voltage of the battery drops under the critically low threshold. You can enable that feature by
checking the "Auto shutdown when battery critical low" checkbox.

Configuring the partitions

The RControl Alarm panel supports 2 Partitions.
- You can configure different Partition settings from RControl Alarm menu, section "Partitions":
- Partition name –   the name which will be visible in the mobile application.
- Entry time   (in seconds) – the interval, after which an alarm will be sent to the monitoring station, if no valid user code is entered.
- Exit time   (in seconds) – the time interval from the physical arming from a user and the arming of the alarm panel. You can choose when the Exit time will be applied – when arming from a wireless keyfob, in case of remote arming from the mobile application or both.
- Alarm cycle duration   (in seconds) – the time interval when the siren will be active after an alarm event.
- Sound indication from the siren   in case of tamper alarm   .

Configuring the zones

If you need to change the default self-learning behavior, you can configure the zones from the "RControl Alarm" menu, section "Zones" for the wired zones or "RF Zones" for the wireless zones.

With a double click on the selected zone you can:

- Change the name of the zone   – from section "Zone name"
- Enable or Disable the zone   – from section "Enabled"
- Set the type of the zone   – Instant, Entry/Exit, Follow, Tamper, Panic, Fire etc. – from the menu "Zone type". Select "Disabled" if the zone will not be used
- If you have configured a zone as a "Keyswitch zone"   you can choose if the alarm panel would be Armed/Disarmed when this zone is activated.   This can be configured from the menu "Keyswitch action"
- Configure zone arming type = "Full arm" and "Stay arm" – from menu "Keyswitch arming".
- Choose if the siren will be activated when the zone is violated – from section "Notification type"
- Can choose if every violation of the zone will be reported during the alarm cycle time. You can configure this from section   "Report All During Alarm Cycle".
  If this setting is disabled only the initial violation will be reported and all following activations will not be reported until the alarm cycle time expires. When the alarm cycle time expires, the zone restore event will be reported only when the zone is really restored. In addition, even when there was a restore during the alarm cycle, this restore will not be reported until the expiration of the alarm cycle time or until the partition is disarmed.

Zone types

- SMARTEnroll   – by default all zones are configured as "Smart Enroll" zones. This means that the detectors added on these zones will be automatically registered (self-learned) as Instant zones. This simplifies the installation process in the most commonly used scenario, when only instant zones with no entry/exit times are needed. When a new wired detector is connected to any zone (when the zone is closed), the zone is registered automatically, and the panel starts monitoring that zone. Zones Z1-Z7 and Z9-Z16 are self-registered as instant zones and zone Z8 – as a tamper zone (24h Tamper). When a new zone is being self-registered, the panel reports an event "Added module, Zone N" with Contact ID E-531.

  By default, when a zone is not used it should not be short circuited to the AUX (-). However, if a zone is already self-registered and will be no longer used, it should be short circuited to the AUX (-) or it should be disabled, as described in section "Configuring the zones of RControl Alarm panel".

  If you want to configure different zone type, you can do that from the RControl Admin portal > Device Dashboard > RControl Alarm Settings.

- Entry/Exit zone – The Entry/Exit zones can be violated during the entry/exit time delay without causing an alarm event.
  If an Entry/Exit zone is violated while the system is armed, the alarm panel will start counting the entry time. If the system is not disarmed during the entry time, an alarm event is generated.

> NOTE: If the entry/exit time is 0 sec, the Entry/Exit zone works as an Instant zone.
>   The exit time should not be more than 120 secs.
>   The entry time should not be more than 45 seconds.

- Follow zone - This zone can be violated during the entry/exit delay time without generating an alarm event. If the zone is violated while the panel is armed, the panel immediately generates an alarm event (without counting entry time). It is called "Follow" zone because it depends on the Entry/Exit zone. If the Follow zone is violated after an Entry/Exit zone has also been violated, then the alarm panel will wait until the entry time passes before generating an alarm event.
  If the Follow zone was violated before any Entry/Exit zone was violated, then an alarm event will be generated immediately.

- Instant zone - If this type of zone has been violated when the panel is armed, the panel will immediately generate an alarm event. The arming of the alarm panel is not being possible if an Instant zone is violated. In this case the alarm panel sends a Contact ID event E-374 (Exit Error, in Zone N), reporting first the violated zones which prevent the panel from arming.

- Follow STAY zone - This is a Follow zone that is not monitored when the panel is partially armed (STAY Arm)

- Instant STAY zone - This is an Instant zone that is not monitored when the panel is partially armed (STAY Arm)

- 24 Hours Tamper – If this zone is violated, the valid user's code must be entered before the system can be armed. This can be accomplished also by pressing the disarm button of the keyfob.

- 24 Hours Fire – When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The siren will follow the fire pattern, the fire icon and zone number will be lit. The alarm will sound until the alarm cycle duration expires, or until a code is entered or the disarm button of the keyfob is pressed.

- 24 Hours Alarm – When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The alarm will sound until the alarm cycle duration expires, or until a code is entered or the disarm button of the keyfob is pressed.

- 24 Hours Panic – This zone is silent. When the zone is violated, an event will be send to the central station and the zone number will be lit. The restore will come after the zone is closed.

- 24 Hours Medical – When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The siren will follow the alarm pattern and zone number will be lit.

- 24 Hours Sprinkler – When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The siren will follow the trouble pattern, the fire icon and zone number will be lit.

- 24 Hours Gas – When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The siren will follow the Gas alarm pattern and zone number will be lit.

- 24 Hours Freeze - When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The alarm will sound until the alarm cycle duration expires, or until a code is entered, or the disarm button of the keyfob is pressed.

- 24 Hours Flood - When this zone is violated, the panel will immediately latch the alarm output and communicate to the central station. The alarm will sound until the alarm cycle duration expires, or until a code is entered, or the disarm button of the keyfob is pressed.

- Keyswitch High Level – When this zone is violated, the system will arm. When this zone is secured, the system will disarm.

- Keyswitch Low Level – When this zone is violated, the system will disarm. When this zone is secured, the system will arm.

- Keyswitch High Impulse – Momentary change from OFF to ON will alternately arm/disarm the system.

- Keyswitch Low Impulse - Momentary change from ON to OFF will alternately arm/disarm the system.

RControl Mobile Application

The RControl   mobile application is available for Android, iOS and Windows Phones.
With the RControl   mobile application the end user can:
- Monitor the status of the alarm panel
- View events log up to one year back in time
- Remotely Arm/Disarm the alarm system

The application can be download by scanning the following QR codes:

Initial end user login credentials for the app are provided with the alarm panel.
At the first login, it is strongly recommended that the end user changes the User name and Password and provides an email for password recovery.

Remote Arming/Disarming via the RControl Application

To enable the remote control via the mobile application, go to Menu > Settings > Remote Arming/Disarming and enable the Arming/Disarming feature.
Ask the end user to enter a Remote PIN code of their choice and Disarm (or Arm) the system from a keyfob or the keypad within 2 minutes to complete the initial pairing procedure.

Changing the default keypad user code

The end user can change his keypad user code from the mobile application.
To change the code go to Menu > Settings > Remote Arming/Disarming > Change Remote PIN.

Troubleshooting

System Test

Once the wiring is done you can initiate a system test.

NOTE: Make sure the panel is disarmed and indicating a ready status.

To initiate a system test, hold the "0" button of the keypad. A sound indication from the system will appear, indicating that you must enter a valid code in the next 20 seconds. If this is not done, the panel will automatically exit the System Test mode.

Once this is confirmed with a valid code - the panel will send an event to the monitoring station for entering in System Test mode. The programming icon on the keypad will be lit.

The installer must activate each of the zones that he previously configured. Every time a zone is activated it will respond with a sound indication.

When the last zone is tested/activated the system will indicate with a sound signal that the System Test is complete and will exit the System Test mode. A message for exiting a test mode will be send to the monitoring station. In case the installer did not activate all the zones within 5 minutes, the alarm panel will automatically exit the System Test mode and indicate this with a sound. The programming icon will also be off.

If some of the sensors is not activated the system will not generate a sound indication for exiting a test mode until this sensor is activated. The installer can manually exit the testing mode by holding the "0" button.

In this case the system will generate a sound indication for exiting a test mode and will also send event to the monitoring station with the zones that haven't been tested/activated.

Periodical Test

The alarm panel can send a periodical test to the monitoring station.

This can be configured in the RControl Admin portal, section RControl Alarm-> General Settings-> Test Intl

Battery Test

When AC is present, the system runs battery test every 120 seconds to determine if there is a battery connected and runs check for battery's condition.

If the system finds that the battery voltage is low (less than 10.8 V), a message will be send to the central station.

AC loss – Power LED is off.

This indicates that the system is operating on battery power only. Check to see that the circuit breaker for the branch circuit that your system's transformer is connected to has not been turned off. Instruct the user to contact a service representative immediately if the AC power cannot be restored.

Zone problems

- Wiring
- Configuration
- Faulty detectors

Siren not working

- Check wiring
- Programming
- AUX overcurrent