

- **New features in Advent access control software for self-storage**
 - **Timed automatic arming and re-arming after hours**
 - **Pre-arming warning via beepers and/or lights**
 - **Global control of lighting relays – 4 zones per alarm area**
- **Take control of your storage facility today!**

Overview

The Advent self-storage access control system integrates access control, area arming and lighting control to provide convenient cost-effective security for self storage sites. Using the system enables users of the facility to gain access to the premises at any time (or as per restrictions programmed into the system). Whenever someone accesses the facility their presence on site is recorded, and their unit is automatically disarmed. When they leave the facility their unit is automatically armed.

New features of the system extend the power to offer convenient lighting control, and also automatic arming of the system when users don't operate it correctly.

Global lighting relays

It is now possible to define up to four lighting relays for each alarm area. These lighting relays turn on whenever that alarm area is disarmed. By combining lighting relays (which can be located anywhere in the facility) for different areas powerful and effective lighting control systems can be generated. For example it is possible to 'light a pathway' to a particular unit without requiring all the lights in the facility to be turned on. Lights are only on when they need to be, and users always have light when they need it.

This provides a cost-effective solution because it saves on lighting costs in the facility.

Automatic arming and global buzzer relays

It is now possible to define the following for each alarm area:

- a timezone of 'normal operation'
- a buzzer time
- an 'auto re-arm delay'
- a global buzzer relay

These features combine to automate the after-hours arming of the facility so that common areas can be armed for example.

During the defined timezone, the system operates normally i.e. when users enter their area is disarmed, and when they leave their area is armed. At the end of the timezone however it is possible to set the system to automatically arm the areas as required – areas which have been inadvertently left disarmed (due to users tail-gating or other reasons) will automatically arm. The units don't immediately arm however – instead, the 'global buzzer relay' turns on. This is linked to some sort of sounder on the premises which warns anyone on site that the system is about to arm. The global buzzer relay operates for the 'buzzer time' which can be up to 4 minutes.

During the buzzer time, if a user wishes to stop the alarm from turning on they simply use their credential at an entry reader. This will disarm their unit and stop the auto-arming sequence. Other units which are auto-arming will continue to do so but the buzzer will stop because there is now a disarmed unit in the system.

Now the 'auto re-arm delay' comes into action. This can be a time period from 1 minute up to 8 hours in length. At the expiry of this time period the unit will again automatically attempt to arm. The buzzer will operate and warn people on site that the area is about to arm and again they can stop it by using their credential at an entry reader.

It is also possible to set the system so that the global lighting relays flash during the buzzer time. This will provide a visible as well as audible indication of the impending arming of the system.

Setting it up

These new features are available in Advent revision 223. When the alarm area is edited (Hardware/Alarms/Areas) the screen looks as per below.

Edit alarm area

Area number Name Vacant

Controller Index

Indication (on the same controller)

Alarm relay A Mode Time Pulse on arm

Alarm relay B Mode Time Pulse on arm

Alarm relay C Mode Time Pulse on arm

Armed relay Disarmed relay Abnormal relay

Buzzer relay Buzzer time Status Led

Timezone Disarm at start Arm at end

Auto re-arm delay (min) Retriggered by Priority read Any read Activity

Auxiliary (PC-controlled) relays for global lighting/alarm control

Disarmed 1 Buzzer

Disarmed 2

Disarmed 3

Disarmed 4

Flash disarmed relays while buzzing

To set up a system so that this works appropriately:

1. Define the 'normal operation' timezone – this is the timezone during which you don't want the system to automatically arm. This will usually be the hours during which someone is on site. Timezones are defined under the Setup/Timezones menu.
2. For each area, assign the timezone to that area and tick the 'arm at end' box. Don't tick the 'disarm at start' box because this will make the area automatically disarm in the morning. Having the 'arm at end' box will make the area arm at the end of the timezone.
3. For each area, set the buzzer time. This can be set from 1 to 255 seconds, or 0 to have no buzzer time. This is the amount of time that the buzzer relay will operate for prior to the area arming each time it arms (whether armed by a timezone, PC operation or user exiting the premises).
4. For each area, set the auto re-arm delay. This can be set from 1 to 65535 minutes. This is the amount of time (after hours) that the area is disarmed for before attempting to automatically re-arm.
5. For each area, define the global buzzer relay. This can be any defined door/relay in the system.
6. For each area, if desired tick the 'flash disarmed relays while buzzing'. If this is ticked then the disarmed 1, 2, 3, 4 relays will flash on and off during the buzzer time.
7. If the 'flash disarmed relays while buzzing' is ticked, set the flash time under Technician/Site where the time can be set from 1 to 250 seconds.

Notes

This solution provides a great deal of power and flexibility when configuring the lighting and auto arming of the system. However there are a few provisos to be aware of.

- the 'buzzer time' is active all the time. This means that for up to the (buzzer delay time) seconds after anyone leaves the premises their unit will be unsecured
- the system works well for a single person entering and then leaving the premises without securing their unit. However if someone enters and stays on site for longer than the rearm delay then, if someone else has entered after them then the first person won't know that their own area is about to re-arm, as there will still be a second area disarmed by the other person. Thus this may result in a possibility of a false alarm occurring due to someone staying on site longer than the rearm delay time.
- During the day the auto-rearm function will be turned off due to the timezone. However at the end of the timezone all areas will attempt to arm (i.e. the buzzer relay will turn on and the lights flash if programmed) even if there has been activity in the previous period.
- All these functions rely on the PC to operate the buzzer and lighting relays. If the PC is not online, then the areas will automatically arm but the buzzer and lighting relays will not operate correctly.

Copyright © 2000 CS Technologies (A division of Trycup Pty Ltd ACN 003 341 982)

The above information is intended for information only and is believed to be correct at time of printing. CS Technologies accepts no responsibility for any damage as a result of the use or misuse of this information. E. & O. E.

Document1