

Challenger Version 8

Auto Arm and/or Disarm.

AN15

This document provides details of the programming requirements for enabling the automatic arming and disarming programs available in the system.

A programming flow chart and details of the factory default programming settings are provided on the last page for reference.

Accessing the Install Menu:

To display menu option 19 (Install Menu) in the User menu, the alarm group of the user code must allow it. The Master Installer is User Number 50. The default master PIN code (User 50) = 4346. The master PIN code should be changed. The Alarm Group assigned to User 50 should never be changed.

The Installer menu is accessed via the User menu and is User menu option 19.

The system must be disarmed before it is possible to use the Installer Menu.

To disarm the system:

4 3 4 6 (Master PIN code) **<OFF>** then **0** (Select all areas) **<ENTER>**

To access the Install Menu:

<MENU> **4 3 4 6** (Master PIN code) **<ENTER>** Accesses User Menu.

then **1 9** **<ENTER>** Selects Install Menu

AN15

1. Determine the Requirements and fill out the programming sheets.

Blank programming sheets are found at the rear of the Version 8 Programming guide.

In this application you will need to consider the following Installer Menu databases:

- 5. Alarm Groups
- 10. Text Words
- 13. Time Zones
- 17. Arm / Disarm Timers

2. Program any TEXT WORDS required for names of the alarm group/s that will be assigned to the arm / disarm timer program/s, if they are not already provided in the extensive word library.

TEXT WORDS are programmed in Installer Menu Option 10: - Text Words.

From the Install Menu select Option 10.

Up to 100 custom words can be added to the library.

Select a word number to program or change.

Use <*> to scroll through the list of programmable words.

Use the keypad text option to enter each character of the word.

3. Program the TIMEZONE/S that will specify the arm and/or disarm time.

TIMEZONES 1 to 24 are programmed in Installer Menu Option 13.

From the Install Menu select Option 13.

The START time will be the time that the area/s specified in the Alarm Group will DISARM

Select a Timezone number to program and enter the start and end times and days for each segment. e.g.

The END time will be the time that the area/s specified in the Alarm Group will ARM

The Timezone must specify both START & END times whether both are used or not.

TIMEZONES 1 to 24

TIMEZONE 1: AREA 2 AUTO ARM/DISARM

There are 24 "Real-time" timezones in the system, based on the built-in real-time clock. Each Timezone may have up to 4 segments, each programmed with a Start time, End time and Days.

		START		END	
Tz 1.1	Mo	08:00	Tu We Th	17:30	Fr _ _
Tz 1.2	_ _	08:00	_ _ _	12:30	Sat _
Tz 1.3	_ _	00:00	_ _ _	00:00	_ _ _
Tz 1.4	_ _	00:00	_ _ _	00:00	_ _ _

4. Program the ALARM GROUP/S to specify the automatic alarm control function/s required.

This Alarm Group will define the area/s and Alarm control functions that will be performed when the timezone Starts and/or Ends.

Alarm Groups 11 to 13 are "All Area Masters" and may be suitable for this application if all areas are to be controlled.

Alarm Groups 14 to 29 are intended for devices that control a single area and would be suitable for this application.

Alm Grp 14 = Area 1

Alm Grp 15 = Area 2 etc.

Alarm Groups 30 to 138 have no default programming and are intended to be programmed according to the specific requirements.

Program an appropriate name for the Alarm Group

Specify the Area/s assigned to this Alarm Group. This will be the area/s that will be automatically controlled.

Specify whether the Alarm Group is going to be assigned to Users.
(Not relevant for this application)

Specify the Alarm Sytem Control functions and features that this Alarm Group will allow
(Arm, Disarm, Reset etc.)

Alarm System Control

Prompt With List of Areas
Can User Activate Keyboard Duress

Reset System Alarms

Disable Auto De-isolate

Arm & Reset Only
Disarm Only
Alarm Reset Only

Note: If you require the Arm/Disarm Timer to Arm only, Disarm only or Arm & Reset only, select the appropriate restriction here.

Auto Isolate Unsealed Inputs

ALARM GROUPS are programmed in Installer Menu Option 5.

From the Install Menu select Option 5.

Select an Alarm Group to program.

(Refer to V8 Programming Guide:- Appendix 1, Table 4 for more specific details)

Enter a text word number from the word library.

Enter the area number/s required.

Set to YES or NO as required.

Set to YES or NO as required.

To allow any form of alarm system control this option must be set to YES.

Not relevant to this application. Set to NO.
Not relevant to this application. Set to NO.

If "Latching System Alarms" was set to YES in the System Options, setting this option to YES will allow reset of those alarms.

If set to YES; prevents the alarm group from being able to automatically de-isolate inputs in the area/s they disarm.

Setting one of these options to YES will restrict the level of Alarm System Control allowed as specified.

If set to YES, allows unsealed inputs to auto isolate when arming to prevent them causing alarms.

Forced Arming When Unsealed Inputs

If set to YES, area/s will arm regardless of any unsealed inputs which may subsequently cause an alarm.

Prevent Forced Disarming

If set to YES, area/s cannot be disarmed if there are unsealed inputs. (Access alarms)

Modem Access

Not relevant

User Categories
(See AN16-The Timed Disarm Functions for details on the programming of User Category functions)

Prevent Arming If Category Not Timing
(See AN16-The Timed Disarm Functions for details on the programming of User Category functions)

Specify the USER MENU OPTIONS that this Alarm Group will allow Access to.

Not relevant to this application

An Alarm Group can be restricted to be valid only during a specific time period. To achieve this a TIMEZONE is assigned to the Alarm Group.

Enter a Timezone number if required
"No Timezone" specifies the Alarm Group is ALWAYS valid and is the usual setting for this application.

The Timezone programmed to specify the DISARM and ARM times MUST NOT be used here.

The Timezone could be used in this application to specify particular automatic alarm control functions for a particular time period and then switch to the alarm control functions as specified in the alternate alarm group when the timezone is not valid.

If a Timezone restriction has been specified for an Alarm Group, you may assign an ALTERNATE ALARM GROUP that will take effect when the Timezone on this Alarm Group is not valid.

Enter an alternate Alarm Group number if required
You must then program the alternate Alarm Group to specify the new Area/s, functions, options etc. that will be relevant.

The alternate alarm group could be used in this application if the auto arm/disarm timer was to control different area/s during different times of the day/week etc.

5. Program the ARM / DISARM TIMERS.

There are 16 Arm Disarm Timer programs available. This allows for a separate program for every area if that were ever necessary.

ARM/DISARM TIMERS are programmed in Installer Menu Option 17.

From the Install Menu select Option 17.

The Arm/Disarm Timer Program ties the Timezone and Alarm Group together to achieve the desired function/s.

Select the Program Number from 1 to 16 that you wish to use.

Enter the program number.

Specify the Timezone required that specifies the Disarm and/or Arm times.

Enter the Timezone number.

Specify the Alarm Group required that specifies the area/s and level of alarm control for the auto arming and/or disarming.

Enter the Alarm Group number.

6. Provide a Warning before the Area/s automatically arm. (If required)

A warning may be provided to indicate that the Auto Arm/Disarm function is about to Arm the specified area/s.

A) If a fixed warning time is required, and the arming procedure is to operate without the opportunity for Users to keep the area/s disarmed, follow steps 7.1 to 7.2.

B) If Users are to be given the opportunity to keep the area/s disarmed by using their PIN code / card during the warning time, follow steps 8.1 to 8.5.

7. Provide a Fixed Warning time via a relay (to activate piezo screamer etc.) before the Area/s automatically arm.

7.1. Program the TIMEZONE/S that will specify the warning period.

The START time will be the time that the warning starts.

The END time will be the time that the area/s specified in the Alarm Group will ARM, and the warning will end.

The timezone illustrated opposite will provide a 5 minute warning before the area/s arm at 5:30 PM Mon to Fri and at 12:30 PM on Saturday.

TIMEZONES 1 to 24 are programmed in Installer Menu Option 13.

From the Install Menu select Option 13.

Select a Timezone number to program and enter the start and end times and days for each segment. e.g.

TIMEZONE 1:		AREA 2 WARNING						
		START			END			
Tz 2.1		17:25		17:30				
	_ Mo Tu We Th Fr _ _							
Tz 2.2		12:25		12:30				
	_ _ _ _ _ Sat _							

7.2. Program "Relay Mapping" to provide a relay output for activating the warning device.

See AN6-Programming Relays for more details.

Relay parameters underlined are the ones relevant to this application.

RELAYS are programmed in Installer Menu Option 16: - Relay Mapping.

- Select a relay number to program.
- Program the Event Flag that will activate the relay. (if required)
- Program the Timezone that will control the relay.
- If a Timezone has been assigned, specify that the relay is to be held ACTIVE during the timezone.
- Select whether the relay is to operate in NON-INVERTED or INVERTED mode.

8. Provide a Warning time during which Users are given the opportunity to keep the area/s disarmed by using their PIN code / card. Warning is provided via the console beeper/s and via a relay (if required to activate piezo screamer etc.).

Users will use their PIN code or card to keep the area/s disarmed for a specified time. When the time expires the warning will be activated again to allow further extension of the disarm time.

8.1. Program a USER CATEGORY to define the area/s that are allowed to be kept disarmed after the Auto arm/disarm timezone expires.

See AN16 - User Categories for more details.

Program an appropriate name for the User Category.

Area/s to Time On
This record lists areas programmed for Time Disarm.

Area/s to Arm/Reset Only (Not applicable)

See diagram on opposite page.

USER CATEGORIES are programmed in Installer Menu Option 15.

Select a User Category number to program.
Remember that User Category 8 is the special User Count function and will not time.

Enter the number of a word from the word library

Enter the area number/s required
The area/s listed in this option must also be listed in the Alarm Group that the User Category is assigned to, in order for the function to be enabled on those areas.

8.2. Insert the same User Category into the following ALARM GROUPS:

- i) The Alarm Group Used in the Auto Arm/Disarm Timer Program. (programmed in step 4).
- ii) Any Alarm Groups assigned to Users who require the user category function.
- ii) Any Alarm Groups assigned to Arming Stations in your system where the user category function will be performed.

ALARM GROUPS are programmed in Installer Menu Option 5.

From the Install Menu select Option 5.

8.3. Program the User Category TIME and Warning TIME.

Program the relevant timers.

User Category Times
-Records the amount of time (in minutes) applicable to each of the 8 User Categories.

A Separate record is used for each User Category

Warning Time (minutes)
-before a user category timer expires.
The Warning time is the period before the user category time expires during which the user must enter their code to extend the disarm time if required.
An audible alert is provided by the console beeper/s during the warning time.

TIMERS are programmed in Installer Menu Option 6.

Enter a time period for the User Category required

If set to 0, the category will not time out.
PIN Code will be required to re-arm.

Enter a warning time period as required
The warning time must always be shorter than the shortest user category time and should be at least 2 minutes.

8.4. If a separate relay output is required to activate a warning device when the area/s are about to arm, program the "Warning Event Flag" in the AREA DATABASE for the area/s required.

AREA DATABASE PARAMETERS are programmed in Installer Menu Option 2.

Enter an Event Flag number between 17 & 256 as long as it is not used elsewhere in the system

8.5. Program "Relay Mapping" to provide a relay output for activating the warning device.

RELAYS are programmed in Installer Menu Option 16: - Relay Mapping.

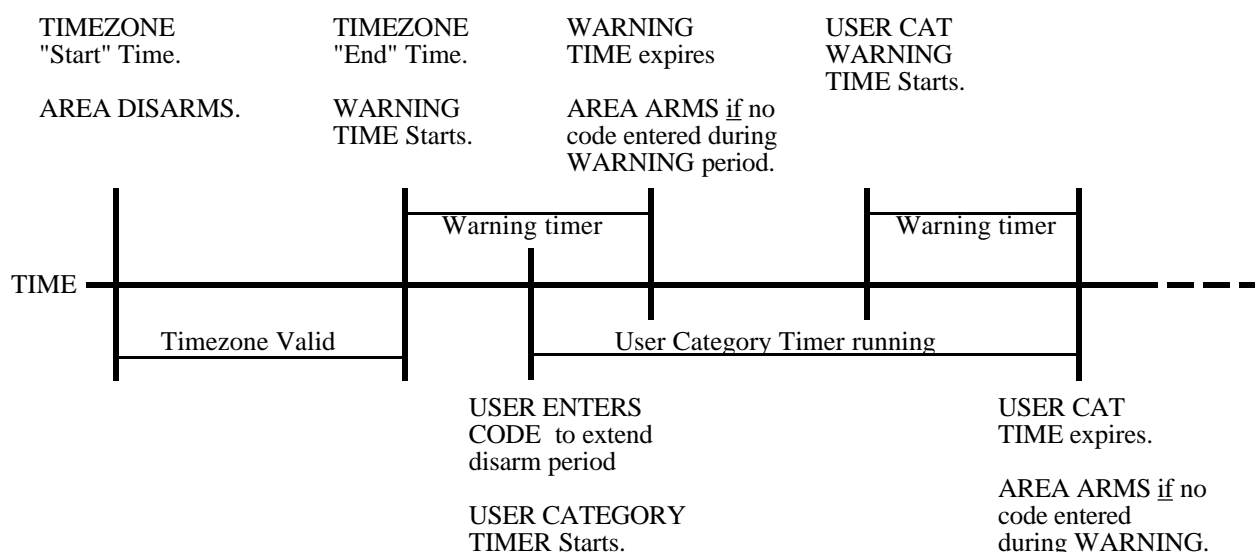
See AN6-Programming Relays for more details.

Relay parameters underlined are the ones relevant to this application.

- Select a relay number to program.
- Program the "Warning Event Flag" that will activate the relay.
- Program the Timezone that will control the relay. (if required)
- If a Timezone has been assigned, specify that the relay is to be held ACTIVE during the timezone.
- Select whether the relay is to operate in NON-INVERTED or INVERTED mode.

USING USER CATEGORIES IN CONJUNCTION WITH ARM/DISARM TIMERS.

By assigning a User Category function with area/s programmed as "Area/s to Time On" to the Alarm Group used in the Arm/Disarm Timer program, it is possible for users to be able to extend the time that the area/s are disarmed by entering their code (or presenting their card) during the "Warning Time".



SUGGESTED PROGRAMMING SEQUENCE

