

Challenger Version 8

Alarm Control with Keyswitches. AN12

This document provides details of the programming requirements for enabling alarm system control functions to be performed with keyswitches or any device wired to a Challenger system input.

e.g. Output contacts from a Remote Control Receiver.

Output contacts from another security system.

Pushbutton switch for quick arming on exit. (programmed to allow arm but not disarm)

A programming flow chart and details of the factory default programming settings are provided at the end of this document 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

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:

1. Input Database
5. Alarm Groups
10. Text Words
13. Time Zones

2. Program any TEXT WORDS required for names of the control input/s, and the names of the alarm group/s that will be assigned to those inputs, 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.

3. Program any TIMEZONES that may be required in order to limit the functions of the control input/s to specific time periods.

TIMEZONES 1 to 24

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.

Timezone 0 is always valid 24 hours every day. It may be used wherever a 24 hr Timezone is required.

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.
e.g.

TIMEZONE 1: KEYSWITCH ENABLED

		START	END				
Tz 1.1		08:00	18:00				
	_ Mo	Tu	We	Th	_	_	_
Tz 1.2		08:30	21:30				
	_	_	_	_	Fri	_	_
Tz 1.3		08:30	13:00				
	_	_	_	_	_	Sat	_
Tz 1.4		00:00	00:00				
	_	_	_	_	_	_	_

4. Program the ALARM GROUPS required to specify the control available to the control input/s.

This Alarm Group will define the area/s and Alarm control functions available to the keyswitch or other device connected to a Challenger input. The special input types used for this purpose require an alarm group to be assigned instead of area/s.

Alarm Groups 11 to 13 are "All Area Masters" and may be suitable for keyswitches, etc 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 keyswitches etc.
Alm Grp 14 = Area 1
Alm Grp 15 = Area 2 etc.

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

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

ALARM GROUPS are programmed in Installer Menu Option 5.

From the Install Menu select Option 5.

Select an Alarm Group to program.

Program an appropriate name for the Alarm Group

Enter the number of a word from the word library

Specify the Area/s assigned to this Alarm Group. This will be the area/s that the input will control.	Enter area number/s required
Specify whether the Alarm Group is going to be assigned to Users. (Not relevant for this application)	Set to YES or NO
Specify the Alarm System Control functions and features that this Alarm Group will allow (Arm, Disarm, Reset etc.)	Set to YES or NO as required
Alarm System Control	To allow any form of alarm system control this option must be set to YES.
Prompt With List of Areas	Not relevant to this application. Set to NO.
Can User Activate Keyboard Duress	Not relevant.
Reset System Alarms	If "Latching System Alarms" was set to YES in the System Options, setting this option to YES will allow the input to reset those alarms.
Disable Auto De-isolate	Prevents certain users (eg cleaners) from being able to automatically de-isolate inputs in the area they disarm.
Arm & Reset Only Disarm Only Alarm Reset Only	Setting one of these options to YES will restrict the level of Alarm System Control as specified.
Auto Isolate Unsealed Inputs	Allows unsealed inputs to auto isolate when arming to prevent them causing alarms.
Forced Arming When Unsealed Inputs	Area/s will arm regardless of any unsealed inputs which may subsequently cause an alarm.
Prevent Forced Disarming	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 <u>USER MENU OPTIONS</u> that this Alarm Group will allow Access to.	
User Menu Options.	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.

The Timezone could be used in this application to specify particular time periods when an alarm control keyswitch would be able to be used according to the details specified in the alarm group.

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.

The alternate alarm group could be used in this application if the keyswitch was to control different area/s during different times of the day.

5. Program the INPUTS.

Now that the alarm group/s have been defined, the Input Database can be programmed.

Select the INPUT NUMBER from 1 to 256 that the keyswitch or other control device is wired to. The input number is determined by the physical location of the input. i.e. The address of the DGP that the input is connected to.

Note that when a DGP has more than 16 inputs (i.e. 2 or 3 expansion modules fitted), the extra input numbers are taken from the next DGP address and the next DGP address cannot be used or polled in the system.

Program a suitably descriptive INPUT NAME, using words from the text word library (including any custom text words you have programmed) and numerical variables.

Select one of the "Area Control" INPUT TYPES to suit the purpose of the input.

e.g.

Type 6: Area Control Input - Momentary

e.g. For momentary (spring return) keyswitches etc.

Type 31: Area Control Input - Latching

e.g. For latching keyswitches etc.

See Control Input Function Table opposite.

Specify a Timezone if required.

"No Timezone" specifies the Alarm Group is ALWAYS valid.

Specify an alternate Alarm Group if required.

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

INPUTS are programmed in Installer Menu Option 1.

From the Install Menu select Option 1.

Enter the number of the input to be programmed.

PANEL	1-16	DGP 8	129-144
DGP 1	17-32	DGP 9	145-160
DGP 2	33-48	DGP 10	161-176
DGP 3	49-64	DGP 11	177-192
DGP 4	65-80	DGP 12	193-208
DGP 5	81-96	DGP 13	209-224
DGP 6	97-112	DGP 14	225-240
DGP 7	113-128	DGP 15	241-256

Enter text word number/s and numerical variables as required

e.g. Keyswitch Area 2
 Remote Arming

Enter the Input Type number required.

It is not necessary to program a REPORT ID for this type of input.

To relate the input to particular area/s and alarm control functions you must program the ALARM GROUP ASSIGNMENT.

Enter an Alarm Group number

These input types are assigned an Alarm Group instead of an area.

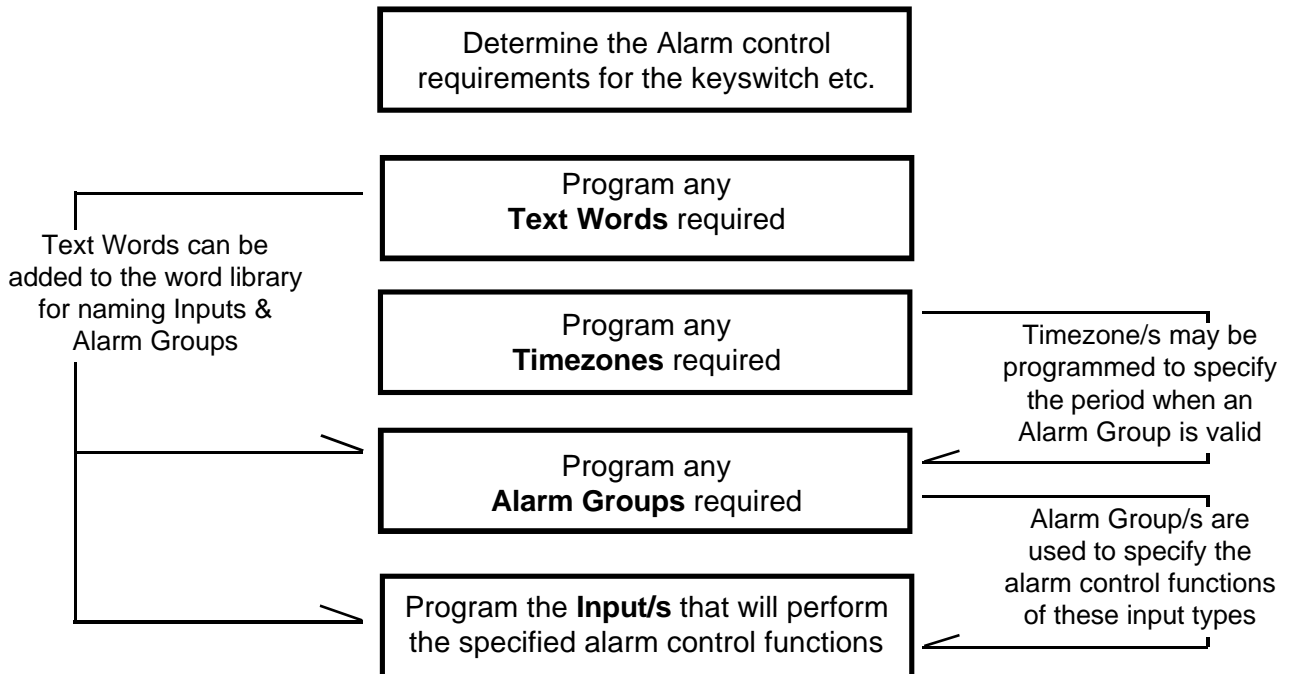
The rest of the input database options are not relevant on these input types.

Control Input Type Function Details

	<u>INPUT TYPES</u>	<u>Function when Unsealed</u>		<u>NOTES</u>
		<u>IN ACCESS</u>	<u>IN SECURE</u>	
AREA (ALARM SYSTEM) CONTROL				
6.	AREA CONTROL INPUT - MOMENTARY	Toggles Area ON	Toggles Area OFF	e.g. Momentary action keystwitch to turn selected area/s ON and/or OFF.
31.	AREA CONTROL INPUT - LATCHING	Area ON (Armed)	-	Area OFF (Disarmed) when Sealed. e.g. Latching keystwitch to turn selected area/s ON and/or OFF
34.	AREA DISARM / USER CATEGORY ARM	Area ON (Arms - after warning time)	-	Area OFF (Disarmed) when Sealed. e.g. Latching keystwitch to turn selected area/s ON and/or OFF
35.	AREA USER CATEGORY ARM ONLY	Area ON (Arms - after warning time)	-	e.g. Keystwitch to turn selected area/s ON.

NOTE: The specific functions of these input types and the area/s they affect is programmed in an "Alarm Group" which is assigned to the input. For these input types an alarm group is assigned instead of area/s.

SUGGESTED PROGRAMMING SEQUENCE



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