



1700 iD ALARM CONTROL SYSTEM

SYSTEMS FITTED ENGLISH TEXT
(LIQUID CRYSTAL) DISPLAYS

OPERATING INSTRUCTIONS

This information is relevant to systems fitted
with Issue 2.6 (or later) System Software

Castle Care-Tech Ltd.

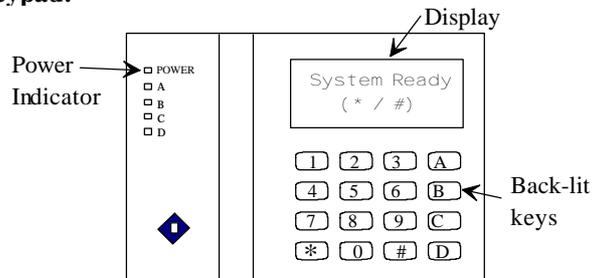
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1 Introduction

The Care-Tech 1700 control unit has been designed and manufactured in England to provide the facilities necessary to form the heart of a sophisticated alarm system for the protection of persons and property. Many of the facilities are programmed by the installing company, who will be able to advise you on the availability of certain of the features referred to in this manual.

The 1700 system consists of a central unit with up to three remote keypads to provide the control facility.

The Keypad:



The system is powered from the mains supply, and is fitted with a rechargeable battery to ensure that the system continues to function normally, for a minimum of eight hours, during a mains power failure.

Before attempting to use the alarm system, please read and thoroughly familiarise yourself with these instructions.

1.1 USING THE SYSTEM - SUMMARY

For full details, refer to Section 2.

SETTING THE SYSTEM

Enter your four digit code (eg 1234) and * to set the system to 'PART' set 'B'
Enter your four digit code (eg 1234) and # to set the system to 'FULL' on
OR use the keyswitch (if fitted) to select 'FULL' or 'PART B' on.

SIMPLE SETTING THE SYSTEM (if enabled in programming)

Enter B and # to set the system to 'PART' set 'B'
Enter C and # to set the system to 'PART' set 'C'
Enter D and # to set the system to 'FULL' on.

UNSETTING THE SYSTEM

Enter your four digit code (eg 1234) followed by #
OR Switch key to 'OFF'

SILENCING AN ALARM

Enter your four digit code (eg 1234) followed by #
OR switch key to 'OFF'
Display will indicate cause of alarm
Note and investigate this cause, calling your alarm company if appropriate.
Press # (or turn key to 'FULL' and back to 'OFF') to return the system to normal 'day' mode

USING THE 'CHIME' FACILITY

Switch the 'Chime' on or off by pressing A and #

1.2 Terms Used

Certain terms used to describe features and operation of the system may be unfamiliar, the principal ones are as follows:

DAY MODE	The 'normal' state of the alarm system whilst the premises are occupied, and the alarm switched 'OFF.' 'Personal Attack' facilities remain functional, and the system will continue to monitor itself for evidence of tampering. Also known as 'UNSET' or 'OPEN'
SWITCH ON	The action of activating, or 'SETTING' the alarm system, whether by use of the keypad or keyswitch.
SET	The condition of the alarm system when armed, after the switching on process has been completed - ie after the completion of the exit time. Also known as 'CLOSED.'
FULL SET	The condition of the alarm when the entire system is set
PART SET	The condition of the alarm system when a pre-programmed portion of the system is not armed - for example when setting the system at night whilst still in the premises. Two separate Part Setting areas are available.
EXIT TIME	The time delay permitted after switching the system on and before it becomes armed - during which you must leave the premises, and close the final exit door.
ENTRY TIME	The time delay permitted by the system after entering by the authorised route, and during which the system must be switched off, or an alarm will sound.
ENTRY-EXIT ROUTE	The portion of the alarm system linked to the Exit and Entry timers, through which exit and entry must be made.
ZONE or CIRCUIT	A division of the system which is separately identified in the indications at the control.
ZONE or CIRCUIT FAULT	Condition of one of the zones when one (or more) detectors are not clear, thus preventing the system from being 'set' - eg a door left open.
ZONE OMISSION	The facility to disable an individual zone (or zones) whilst setting the system
SYSTEM FAULT	An incorrect electrical condition which may impair the correct operation of the system - refer to these instructions for action required.

TAMPER	A fault existing in the wiring, or securing of the housing of part of the system, preventing normal operation.
PERSONAL ATTACK (PA)	An alarm generated deliberately, to summon assistance if being attacked, operative whether system is switched on or not. If remote signalling is fitted, the PA alarm may be silent.
REMOTE SIGNALLING	The facility (if fitted) for the system to automatically communicate by telephone line with a remote Central Monitoring Station to initiate a call to the police.

1.3 The Display

The Liquid Crystal display indicates the condition of your alarm system. This will clearly show any information requiring your attention, as indicated in these instructions. The most important indications are as follows:

'Normal' Indications		'Fault' Indications	
System Ready (* / #)	System in 'day' mode	Eng reset (* / #)	System is awaiting reset by engineer (see 2.4.3)
System Ready (* / #) (Backlight off)	System is 'set'	First to Alarm Zone xx	A fault or alarm has originated on the zone numbered.
Musical note on display	'Chime' is enabled	First to Alarm Sys tamper	System tamper fault (see 5.1)
System Ready	Code accepted, whilst FULL setting the system	Mains fail (* / #)	Mains Failure (See 5.2)
Green LED (on keypad[s])	Mains supply healthy	Low volts (* / #)	System voltage fault (See 5.3)
		Batt fault (* / #)	Battery fault (See 5.4)
		Line fault (* / #)	Telecom Line Fault (See 5.5)

You will observe other indications whilst using the Manager Functions of the system, as itemised in Section 6 of this manual.

The backlight on the display (and on the operating keys) will switch off whilst the system is set, and during a mains failure.

1.4 The Keypad

The 10 numeric keys are for entering your code for setting and unsetting the system, or entering other information when required. Four lettered keys (A,B,C,D) are provided to access additional functions. The # (YES) and * (NO) keys allow confirmation or cancelling of codes entered, also the choice of 'Full' or 'Part' setting the system. Always enter your code carefully and deliberately, never leaving more than 3 seconds between consecutive presses, or the system will reset itself. If the system does not immediately respond to your command, wait 3-4 seconds before trying again.

1.5 Operating Codes

There are three levels of access to the system as follows:

Code	Details of use	Factory pre-set	To change
USER	4 different codes may be programmed These enable the system to be set and unset.	1234	See 6.2
MANAGER	A single code must be programmed, to provide access to the 'Manager' menu only, so that additional functions may be used.	2222	See 6.3
ENGINEER	A single code is available to the installing company engineer to access the programming facilities of the system		

1.6 The Keyswitch

The keyswitch, if fitted, provides an alternative to the keypad for setting, unsetting or resetting the system. The keypad(s) and keyswitch may be used interchangeably.

1.7 Levels of setting

The system may be used in a variety of ways to maximise your security. These are:

FULL SET The entire system is armed, and in the event of an intrusion, an alarm will be sounded, and (if fitted) a police call initiated.

PART SET A pre-programmed portion of the system only is set. The system may provide a reduced level of warning outputs in this mode - eg no police call.

Two different 'Part' settings are provided (designated 'B' and 'C') to permit, for example, one setting to be used to set the downstairs at night, and the other to set upstairs and the garage during the day.

Part Set 'C' is available ONLY if programmed by the installing engineer.

CHIME Provides a simple 'Chime' warning if a programmed zone is triggered whilst the premises are occupied.

Note that the areas pre-programmed for PART 'B', PART 'C' and CHIME may all be different, or overlap.

2 Using the System

2.1 Setting the System

2.1.1 Setting the System with the Keypad

Step	Action	Response	Display
a	Verify that all doors, etc. are closed, and that 'd' is displayed		System Ready (* / #)
b	Enter your 4-digit code, followed by # if the system is to be FULL set, or * if to be PART ('B') set.	Acceptance of code will be confirmed by second line of display blanking. After a few seconds, a steady tone will commence.	Leave by Exit Route [015]
c	Leave the building by the specified route. To set the system silently (eg at night if part of the family is asleep): press * within 2 seconds of completing step b.	Continuous tone sounds. Tone will be aborted.	
d	If a detector is in fault condition, eg a door is opened If this detector is part of the exit route, you may continue, ensuring that all doors are closed behind you; otherwise correct the fault before attempting to leave the building	The tone will become intermittent When closed, the tone will become steady once more.	Exit Fault Zone x
e	Close the Final exit door	Tone will cease when timer expires	System Ready (* / #) (Backlight off)
f	When door is fully secure, press 'Push to Set' button (if fitted)	Tone will cease immediately	
g	The system may be programmed for the external strobe to flash briefly to confirm that the system is set.		
h	If the tone does not cease at the pre-set time	A fault exists, re-enter the building, switch off the alarm and correct the fault before trying again.	

2.1.2 Setting the System using the Keypad (if fitted)

Step	Action	Response	Display
a	Verify that all doors, etc. are closed, and that 'd' prompt is displayed		System Ready (* / #)
b	Insert your key and turn from the 'OFF' position to the 'FULL' or 'PART' ('B') on position, as required. If the keyswitch has been left in an 'ON' position by switching off with the keypad, switch to 'OFF' first, then proceed as above.	Acceptance of code will be confirmed by second line of display blanking. After a few seconds, a steady tone will commence.	Leave by Exit Route [015]
c	Remove your key and leave the building by the specified route. To set the system silently (eg at night if part of the family is asleep): press * within 2 seconds of completing step b.	Continuous tone sounds. Tone will be aborted.	
d	Then proceed as described for using the keypad.		

2.1.3 Setting the system to Part Set 'C'

This facility is available only if programmed by the installing engineer.

Step	Action	Response	Display
a	Press C, followed by #	Acceptance of code will be confirmed by second line of display blanking. After a few seconds, a steady tone will commence.	Leave by Exit Route [015]
b	Leave the area to be protected by the system	Wait for the tone to silence.	System Ready (* / #) (Backlight off)

It is possible to adjust the zones on which Part Set 'C' operates, as described at 6.4

2.2 Omitting Individual Zones

This facility is available only if programmed by the installing engineer.

Whilst the continuous exit tone is sounding, press the number of the zone you wish to omit, followed by '#' - repeating for additional zones if required (Up to 3).

2.3 Unsetting the System

NOTE: deviating from the prescribed ENTRY-EXIT route before switching the system off will cause an alarm.

2.3.1 Unsetting the system with the Keypad

Step	Action	Response	Display
a	Enter the building by the prescribed route only	Intermittent tone will commence	System Ready Enter Code
b	Enter your 4-digit code, followed by #	The tone will cease	System Ready (* / #)

2.3.2 Unsetting the system with the Keyswitch (if fitted)

Step	Action	Response	Display
a	Enter the building by the prescribed route only	Intermittent tone will commence	System Ready Enter Code
b	Insert your Key and turn from On to OFF. If the keyswitch is already in the 'OFF' position, first turn it to 'FULL' then return to 'OFF'	The tone will cease	System Ready (* / #)

2.4 Action Following an Alarm

2.4.1 Cancelling a daytime alarm

An alarm may occur whilst the system is 'unset' by deliberate action (ie operating a Personal Attack switch) or by the effects of a Fire, or a wiring fault. In this event:

Step	Action	Response	Display
a	Enter your 4-digit code, followed by # OR: Insert your Key and turn from 'OFF' to 'FULL' and back to 'OFF'	The alarm will silence	First to Alarm Zone xx OR indication of fault (see 1.3)
b	Note the information shown on the Display, investigate the cause, and advise your alarm company of any action required.		
c	Reset the system by pressing the # key (OR turn Key from 'OFF' to 'ON' and back again.) If shows " Eng reset ", reset by the alarm company is required, and the system cannot be used until this is done. (see 2.4.3)		System Ready (* / #)

NOTE: a FIRE alarm signal will pulse on and off every two seconds to distinguish it from an intruder alarm.

2.4.2 Unsetting following an Alarm

An automatic timer is fitted to the system to silence the external bell or sounder after a pre-set time to minimise annoyance to neighbours, etc. but may have been programmed for the internal sounders to remain live after this has taken place. The system may be reset before or after this action.

Step	Action	Response	Display
a	Enter your 4-digit code, followed by # OR insert your Key and turn to 'OFF'	The alarm will silence, if not done automatically	First to Alarm Zone xx OR indication of fault (see 1.3)
b	Note the information shown on the Display, investigate the cause, and advise your alarm company of any action required.		
c	Reset the system by pressing the # key (OR turn Key from 'OFF' to 'ON' and back again.) If shows " Eng reset ", reset by the alarm company is required, and the system cannot be used until this is done. (see 2.4.3)		System Ready (* / #)

2.4.3 Engineer Reset

If your system is programmed to require reset by the installing engineer following an alarm, the display will show a "**Eng reset**" and it will not be possible to reuse the system until this is done.

Under certain circumstances, your Installing Company, or Central Monitoring Station may permit you to reset the system without an Engineer being present. If so, enter your code, and a special four digit "anticode" will show on the display. Quote this "anticode" - stating that your system has a 'Castle Care-Tech 1000 Series Panel' - and you will be given a special code to enter to free your system for use. This special code will be valid for one occasion only.

2.5 Use of 'SIMPLE SET' facility

NOTE: This facility is only available if programmed by the installing engineer.

The system may be set using two keys only, as follows (the full code is required to unset):

Function:	Simple set
PART set 'B'	Press B #
PART set 'C'	Press C #
FULL set	Press D #

2.6 Using the 'Chime' Facility

You may switch part of the system to provide warning of an intruder in the building whilst it is occupied, without restricting your freedom of movement.

Step	Action	Response	Display
a	Press A, followed by #	Chime now active	A musical note appears at the end of the second line of the display.
b	Intruder triggers programmed zone	System 'Chimes'	Shows number of zone in which intruder is moving
c	Intruder moves to another zone	System 'Chimes'	Number updates
d	Press #		Zone number clears
e	Press A, followed by #	Chime now inactive	Musical note clears from display.

It is possible to adjust the zones on which 'Chime' operates, as described at 6.4

3 Additional Keypad Facilities

3.1 Keypad Personal Attack Alarm

If switching off the system under duress, it is possible to initiate a Personal Attack alarm by pressing the '3' and '9' keys simultaneously. This facility is available at all times. The alarm is reset as described at 2.4

NOTE the alarm may be programmed to be SILENT if a Police Call Unit is fitted to the system.

3.2 Keypad Alerts

These facilities are available only if programmed by the installing engineer.

3.2.1 Just in Case Timer

If you are nervous about answering the door to a stranger, the 'Just in Case' timer may first be set by entering '1*' A 60 second time period will begin, during which the alarm control will 'beep' every few seconds. Once you are satisfied that the caller poses no threat, the timer may be cancelled, by using your normal 4-digit code. If this is not done, the system will generate an alarm at the expiry of the time period. This alarm will NOT be transmitted to an Alarm Monitoring Station.

3.2.2 Fire Alarm

The keypad may be used as a fire alarm call point by entering "7*" This will cause an alarm to sound, pulsing on and off at two-second intervals. This alarm will NOT be transmitted to an Alarm Monitoring Station.

4 Reviewing Time and Date setting

On pressing the * key alone whilst the system is in normal mode (ie display showing System Ready"), the current time and date setting will be displayed, in the form:

Time: 14:30

Date: 18/07

eg this indicates 2.30 pm, 18th July. To adjust this setting, refer 6.5

5 System Faults

5.1 System Tamper Fault

This indicates a fault in the wiring which requires attention by the alarm company.

5.2 Mains Failure

This indicates a break in the mains supply to the alarm control equipment. A battery back up supply is provided which should enable the system to continue functioning normally for a minimum of 8 hours. In the event of the failure being prolonged, the alarm company should be advised.

5.3 System Voltage Fault

This indicates that a fault has occurred in the system power supply or battery charging circuits, and should be reported to the alarm company.

5.4 Battery Fault

This indicates a faulty or disconnected standby battery in the system, which should be reported to the installing company.

5.5 Telecom Line Fault

If a remote signalling device is fitted to your system, a fault on the Telecom line whilst the system is unset, will cause the alarm to respond with a continuous 'chirping' tone. You may cancel this warning by entering your code, followed by # (or by switching the keyswitch on and off again). The warning will NOT repeat in the event of an intermittent fault, unless the system has been set and unset in the meantime.

6 Manager Functions

6.1 Accessing Manager Functions

Step	Action	Display
a	Ensure that the system is in normal mode	<i>System Ready</i>
b	Enter Manager Code (factory pre-set 2222) followed by # The system is now in 'Manager mode' and provides access to the following functions: Set User Codes Set Manager Code Walk Test Bell Test Display Logs	<i>Manager Mode</i> <i>Enter Command</i>
c	To return to normal (day) mode, press *	<i>System Ready</i>

6.2 Setting User Codes

Step	Action	Display
a	Decide which code is to be changed, and ensure that 'Manager prompt' is showing.	<i>Manager Mode</i> <i>Enter Command</i>
b	Enter 1, followed by the number of the code to be changed, and # - eg to change Code No: 3, enter 13#	<i>User 3 - - - -</i>
c	Enter your required 4-digit code, slowly and deliberately.	<i>Manager Mode</i> <i>Enter Command</i>
d	To DELETE a code, enter 0000 NOTE: it is NOT possible to delete Code No. 1	

6.3 Setting the Manager Code

Step	Action	Display
a	Ensure that 'Manager prompt' is showing.	<i>Manager Mode</i> <i>Enter Command</i>
b	Enter 15, followed by #	<i>User 5 - - - -</i>
c	Enter your required 4-digit code, slowly and deliberately.	<i>Manager Mode</i> <i>Enter Command</i>
d	NOTE: it is NOT possible to delete the Manager code	

6.4 Zone Selection

The zones on which 'Chime' monitoring is operative and on which Part Set 'C' functions may be adjusted as follows:

6.4.1 Chime

Step	Action	Display
a	Ensure that Manager prompt is showing	Manager Mode Enter Command
b	Enter 4, followed by zone number, and # - eg 41# for zone 1, or 412# for zone 12	Zone 01 Chime On
c	Enter 0 to change setting between 'on' and 'off'	
d	Press *	Manager Mode

6.4.2 Part Set 'C'

Step	Action	Display
a	Ensure that Manager prompt is showing	Manager Mode Enter Command
b	Enter 5, followed by zone number, and # - eg 51# for zone 1, or 512# for zone 12	Zone 01 Active in C Off
c	Enter 0 to change setting between 'off' and 'on'	
d	Press *	Manager Mode

6.5 Setting Time and Date

For example, to set the system to 2.30 pm, 18th July:

Step	Action	Display
a	Ensure that 'Manager prompt' is showing	Manager Mode Enter Command
b	Enter 70#	Time: 00:00 Date: 00/00
c	Enter HOURS, as for example 14#	Time 14:00 Date: 00/00
d	Enter MINUTES, as for example 30#	Time: 14:30 Date: 00/00
e	Enter DATE, as for example 18#	Time: 14:30 Date: 18/00
f	Enter MONTH, as for example 07#	Manager Mode

6.6 Testing the System:

6.6.1 Walk Test

This function enables you to test that all the detectors are working correctly, without generating an alarm.

Step	Action	Response	Display
a	Ensure that 'Manager prompt' is showing.		Manager Mode Enter Command
b	Enter 20 and #		Walk Test
c	Commence test by triggering one of detectors on the system.	System will 'Chime' once as detector is triggered	Walk Test Zone xx
d	Continue to trigger additional detectors	System will 'Chime' once as each detector is triggered	The zone number corresponding with that detector will be displayed, and will 'scroll' (alternate) with all zones which have previously triggered
e	At end of testing		Numbers of ALL zones triggered will be scrolling on display, even though some (or all) are now clear.
f	Press *	Returns to manager mode	Manager Mode Enter Command

6.6.2 Bell Test

Step	Action	Response	Display
a	Ensure that 'Manager prompt' is showing.		Manager Mode Enter Command
b	Enter 60 and #	External alarm bell (or siren) will sound	Strobe Test Bell Test
c	Press *	Sounder silenced, system returns to manager mode	Manager Mode Enter Command

6.7 Displaying System Logs

The system logs contain a history of events relevant to the operation and maintenance of the system, divided in to 'Alarm' events, 'Trouble' events and 'Activations'. These are stored in chronological order, and are displayed commencing with the most recent.

Step	Action	Display
a	Ensure that 'Manager prompt' is showing.	Manager Mode Enter Command
b	Enter 30 and #	Display will indicate the type of event the first entry represents, eg Type Activation
c	Press # or 0 If '0' is used, information displayed will include time and date for this entry, if '#' is used, this information will be by-passed.	Advances to next part of log entry
d	Continue to press # (or 0) and read information logged	'Press * / #' indicates end of a log entry
e	Pressing # (or 0) moves to next log entry	Continue as above.
f	Pressing * aborts the log review and returns to Manager mode	Manager Mode Enter Command

6.7.1 Activation Records

This records a 'set' or 'unset' event. The information recorded is as follows:

System SET or UNSET

User number

0 = Keyswitch or Simple set
1,2,3 or 4 = number of PIN code used.
9 = Set as 'PART C'

If the record is a Setting event, additional information will follow:

FULL or PART set (Part 'C' distinguished from 'B' by User number)

Omitted zones - listing up to three zones manually omitted.

6.7.2 An Alarm or Trouble record

These records itemise events where an alarm of some description has been triggered.

An TROUBLE event will provide information relevant to a daytime fault warning.

An ALARM event will record information concerning an alarm condition.

The information recorded is as follows:

*First to Alarm
Zone xx*

(or details of fault condition, as itemised at Section 5)

Note the designation '2-key PA' recorded in the log refers to ANY alarm generated from the keypad.

6.7.3 Display of Time and Date

If scrolled through a log record with '0' key, the system will additionally indicate the Time and Date associated with that event, in the format

*Time: 17:45
Date: 21/07*

ie 5.45 pm on 21st July, etc.

Note this information is not all presented immediately.

6.7.4 Printing logs

By using the command 31# whilst the 'Manager prompt' is showing, the log will be output to a printer connected to the system. The printer connections should be fitted by your installing engineer. The system is compatible with many standard IBM PC-compatible 'Centronics' parallel type printers, such as the Datec DP1014.0400K, Seiko DPU40, Epson P40, etc. Due to the wide variation in software driving requirements, it is not possible for the 1700 to correctly drive all types of printer.

The printer should NOT be left connected to the system when 'off line' or not in use.

Note: Castle Care-Tech Ltd. reserve the right to change the specification of this system at any time in the interests of product improvement

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INSTRUCT - 33