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## 1.00 Introduction

Thank you for choosing Melcom's security control panel, we are committed to bring to you, tomorrow's technology today.

The installation engineer has fitted your alarm system and explained the operation of the control panel.

For your reference, the basic instructions are printed on the inside back cover of this booklet for you to cut out and keep in a safe place. This booklet is designed to explain in more detail, the operation of your control panel and how to re-program the user options.

## 1.01 ST6100 & ST6600 Control Panel

The ST6100 & ST6600 control panels have 8 zones, one of which is dedicated as a Tamper zone. The main control unit allows authorised persons to arm & disarm the system. In the event of an activation, the main unit will activate visual and audible devices attached to the system. If the system is found to have a fault this will be indicated by the LEDs on the ST6100 and on the ST6600 by the K6600 remote LCD keypad.





## 1.02 K6600 Remote LCD Keypad

The K6600 LCD remote keypad comes as standard for the ST6600 and is available as an accessory for the ST6100 and ST6550.

The K6600 remote keypad gives full system information on its 16 X 2 LCD display.

All zones can be given a name selected from a predetermined list. This helps to identify any zone that is in fault or as activated, also date and time of activation is displayed.

Up to six K6600 LCD remote keypads can be fitted to any ST6100, ST6500 or ST6600 control panel.



## 1.03 K6550 Remote LED Keypad

The K6550 LED remote keypad can be fitted to the ST6100, ST6500 or ST6600.

The K6550 remote keypad gives full system information indicated by LEDs. It has an onboard Keypad panic, gives indication if low battery or mains supply disconnected.

Up to six K6550 LED remote keypads can be fitted to any ST6100 ST6550 or ST6600 control panel.





#### 1.04 SL6600 Sleep Watch Remote Keypad

The SL6600 Sleep Watch Remote Keypad is available as an accessory.

It incorporates a digital Panic Button and is also used for arming and disarming Part Guard and Sleep Watch zones.

If you need to go to the bathroom in the night, simply by pressing the sleep button, all Sleep Watch zones will disarm, but perimeter zones will stay armed.

If the system is activated the Sleep Watch keypad will give corresponding beeps to indicate which zone has activated so that you know which part of your premises the intruder is located.

Up to six SL6600 Sleep Watch remote keypads can be fitted to any ST6100 ST6550 or ST6600 control panel.



#### 1.05 AD1000 Voice Dialer

The AD1000 Voice Dialer can be connected to either the ST6100, ST6550 or ST6600 control panels.

In the event of your alarm activating, the AD1000 will telephone the pre-programmed numbers and play a voice message to your telephone letting you know that your alarm has activated.

Up to 8 telephone numbers can be programmed and a single voice message of 20 seconds recorded.

If a telephone number is busy or unanswered, the AD1000 will automatically redial those numbers.



## 2.00

## USER OPERATION

### 2.01 Day (Off) Mode

This is the normal (default) setting of the control panel. The alarm will sound if the following types of zones are activated in Day Mode and also to indicate faults.

Type of Alarm or Fault	Indication
Panic, Personal Alarm (PA)	Full alarm, external and internal sirens sound.
Fire Detection Zones	Full alarm, external and internal siren intermittent sound.
24 Hour Alarm	Internal sirens only.
Tamper Fault	Tamper LED On (ST6100) LCD Display Fault Tamper (K6600)
Zone Fault	Day LED flashing

### 2.02 Full Guard Arming

In FULL GUARD armed state, zones connected with intrusion detectors to the control panel will detect any unauthorised entry and set off the internal and external alarm.

Make sure all zones and P.A. (Panic Alarm) loops are closed. The control panel will not switch to the armed mode if they are open. Full Guard Arming is indicated by the internal speaker beeping during exit time count down.

To arm the system enter a valid user code:

Example:

Enter:

EXIT time is delayed whenever a zone is opened or in fault, (e.g. a door contact on the front door is opened). Count down will resume when the zone is closed, omitted or fault removed.

**Note: System can be quick set by pressing Set key for 3 seconds if this feature is enabled by the installation engineer.**

#### K6600 LCD Display

System Ready  
Melcom

System Arming

System Armed

### 2.03 Part Guard Arming Option 1

PART GUARD means that the system is only armed in pre-set zones, allowing you to occupy or pass through the unarmed zones. This is normally used for night-time setting of the alarm system to isolate the bedrooms.

Enter a Valid User Code and press SET within 5 seconds.

Example:

Enter:

System Ready  
Melcom

Part Arming

System Armed

PART GUARD mode will become armed within 5 seconds (or the time programmed by the engineer). You should leave or go to a non-armed part of the building, zone LEDs, PA and Tamper will flash momentarily to indicate Part Guard Arming.

**Note: If you have zones programmed as Sleep Watch zones, these can only be armed after Part Guard arming and pressing the sleep button on the sleep watch remote keypad.**

### 2.04 Omitting Zones Full Guard

You might wish to omit zones in full guard before arming the system. For example, you can omit the zone that protects the garage.

Enter a valid user code and press OMIT, enter zone number to be omitted and press OMIT.

Example: Omitting zone 2

Enter:

Press:

Press:

System Arming

Omit Zones  
2

System Arming

Zones omitted will be reintroduced to the system once the system has been disarmed. If you wish to have a zone disabled from the system, you must contact your installation engineer.

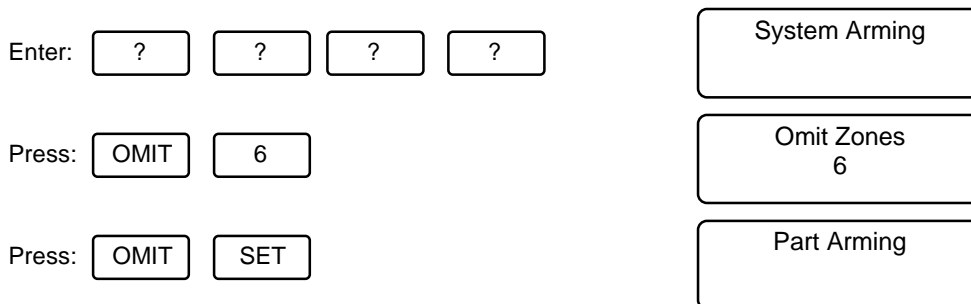
**Note: PA, Tamper, Fire Zones & 24 Hour Zones can not be omitted.**

## 2.05 Omitting Zones Part Guard

You might wish to Omit Zones in Part Guard before arming the system. For example, you can omit the zone that protects the kitchen.

Enter a Valid User Code and press OMIT, enter zone number ,press OMIT and SET.

Example: Omit Zone 6 .



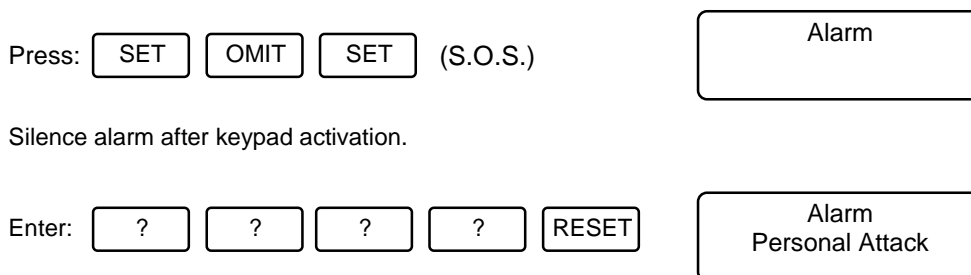
Zones omitted will be reintroduced to the system once the system has been disarmed. If you wish to have a zone disabled from the system you must contact your installation engineer.

**Note: PA, Tamper, Fire Zones & 24 Hour Zones can not be omitted.**

## 2.06 Activating & Resetting Keypad Panic

If the control panel is armed or in day mode, activating of the Keypad Panic will sound the external and internal sirens. To silence the alarm, enter any USER CODE, day LED will flash and press RESET.

Example:



**Note: If you do not press RESET after enter your code the control panel will not operate until RESET has been pressed.**

## 2.07 Disarming System Using Keypad

When returning to the premises, enter via the ENTRY/EXIT Zone. This will activate the entry tone for length of ENTRY time as programmed by your installation engineer. To prevent the activation of the alarm before the elapse of the ENTRY time, you must enter any valid user code. The keypad sounder will speed up when entry time has nearly timed out.

Example: disarming system.

Enter:     System Ready  
Melcom

**NOTE: Entry tone will speed up before sounding the internal alarm. If after 30 seconds, still no valid user code has been entered, the external siren will sound. The keypad will lock up for 2 minutes if after 15 key presses no valid code is recognised.**

## 2.08 Disarming System After Activation

When returning to the premises, enter via the ENTRY/EXIT Zone. This will activate the entry tone for length of ENTRY time as programmed by your installation engineer. Enter a valid user code to disarm the system and press RESET.

Example: disarming system after zone 5 activation.

Enter:     Alarm  
Zone 5

Zone 5 LED illuminated.

Enter:  System Ready  
Melcom

The activated zones will be indicated by zone LED on the ST6100 and on the K6600 LCD keypad date time and zone number or name. Note which zone or zones have activated. Enter your user code and press the reset key. After resetting the system investigate those zones which have been activated.

Any activation caused by a Tamper fault has to be cleared before the system can be reset.

**Note: Failure to reset the control panel will cause the system to lock up, the system will not function until the reset key has been pressed. If your system has been programmed to be reset after an alarm activation by your installer. After silencing the alarm, you will need to contact your installer to reset the system.**

## 2.09 Arming & Disarming Part Guard Option 2

If your system is fitted with a SL6600 sleep watch keypad, the system can be part guard armed and disarmed by using this keypad providing that this function has been enabled by your installer

Press:  for 3 seconds key illuminates green and gives 1 beep. Part guard is now armed.

Press:  for 3 seconds key light extinguished and gives 2 beeps. Part guard is now disarmed.

## 2.10 Arming & Disarming Sleep Watch Zones

Sleep Watch zones act in the following way. When the system is part guard armed, Sleep Watch zones remain unarmed until the sleep button on the sleep watch has been pressed. These zones can be disarmed by using the sleep watch button (either permanently or temporary timed). This is useful should you need to go to the bathroom or kitchen at night .

If a Sleep Watch zone is activated ,it will not activate the alarm immediately but give a timed delay to enable you to enter your user code into the system keypad. The sleep watch keypad will a give corresponding number of beeps to indicate which zones has been activated.

Press:  for 1 second key illuminates green. Sleep watch zones are armed.

Press:  for 1 second key illuminates red. Sleep watch zones are disarmed.

**Note: If sleep watch automatic rearm is programmed by your installer sleep watch zones will rearm automatically after the time preprogrammed by your installer and the sleep button illuminates green when zones are rearmed.**

## 2.11 Activating Sleep Watch Panic Button

The sleep watch keypad has an integrated digital panic button, which can be activated by pressing for 1 second. This will activate a full alarm I( ie: both internal and external sirens).

Press:  for 1 second key flashes green. Internal and external sirens activated.

## 2.12 Silencing Panic Alarm Activation

If your system is fitted with sleep watch remote keypads, LCD remote keypad or push panic button and has been activated by pressing the button or entering the panic keypad alarm sequence, enter a valid user code and press reset to silence alarm.

Enter:     Day LED flashing

Press:

Alarm  
Personal Attack

System Ready  
Melcom

**Note:** If the alarm is activated by using a panic button, after entering your user code you must reset the button using a reset key supplied with the unit.

**If you do not reset the panic button, the alarm system will not function until the panic button is reset and the reset key on the keypad.**

## 2.13 Memory Recall

The control panel can recall the last 50 activations and can also give the date and time of activation if fitted with K6600 LCD remote keypad, last activation is displayed first. Only the master user code can recall the activation memory log.

To recall alarm activations.

Press:

Enter:     Master User Code

Press:  zone LED flashes.

Keep pressing MEM to go through the activation log.

Press:  to exit memory recall, and return to day mode.

User  
Programming

DD-MM-YY HH-MM  
Personal Attack

System Ready  
Melcom

## 2.14 Displaying Faulted Zones

If a zone is found to be in fault, this is indicated by the day LED flashing. To check which zone is in fault enter a valid user code and note which zone LED is illuminated. A tamper fault is indicated immediately by the tamper zone LED illuminating.

Enter:

Fault  
Zone 5

**Note: System can not be armed unless the zone fault is cleared or omitted from the system when arming.**

## 2.15 Intelligent Auto Reset

If the panel has activated whilst you are away, once the alarm time as timed out, the panel will automatically reset. The alarm will activate once more should another zone be activated, or if the zone that originally activated, is closed. Upon entering the premises the strobe will be flashing to indicate system has been activated.

Enter a valid user code and note which zones have activated then press RESET key.

## 2.16 Mains Supply Failure Indication

Mains LED illuminated RED = No mains supply

Fault  
Mains

## 2.17 Mains Supply Failure and Low Battery Indication

Mains LED illuminated RED and flashing = No Mains and  
Low Battery

Fault  
Mains / Battery

## 2.18 Low Battery Indication

Mains LED illuminated ORANGE and flashing = Low Battery

Fault  
Low Battery

## 2.19 Service Require

Day LED flashing and system arms = Service Required

Service Required

### 3.00 User Programming Section

You can adjust several control panel settings by entering User Programming MODE. To enter user programming from Day Mode press PROG and enter your Master User Code:

Press:  All Red LEDs illuminate.

Enter:

Zones LEDs extinguish, except Tamper

User  
Programming

You are now in user programming mode, follow the instructions to make any changes allowable under user programming.

**Note: Only the master user code can make any changes in user programming mode.**

### 3.01 Changing Master User Code

It is advisable to change your master code from the factory default setting 1 2 3 4. It is important that you do not forget this code as no programming changes can be made in either user or engineer programming without entering this code.

Press:  Zone 1-4 LEDs illuminate

Enter New Code  
Master

Enter a new 4 digit number do not use 0 0 0 0. After acceptance a double beep is given and unit returns to user programming.

### 3.02 Enable User Codes 2 - 5

User Codes 2 – 5 are disabled and can be enabled by entering the following programming locations:

Press:  Zone 1-4 LEDs illuminate

Enter New Code  
User 2

Press:  Zone 1-4 LEDs illuminate

Enter New Code  
User 3

Press:  Zone 1-4 LEDs illuminate

Enter New Code  
User 4

Press:  Zone 1-4 LEDs illuminate

Enter New Code  
User 5

Enter a 4 digit number. Do not use 0 0 0 0 as this will disable that user code. After acceptance of code a double beep is given and the system returns to user programming.

### 3.03 Enable User Code 6

User code 6 is unable to disarm secure zones. This is useful if you have a cleaner, whom you do not want to enter any particular zones.

To enable user code 6 from user programming mode:

Press:  Zone 1-4 LEDs illuminate

Enter New Code  
User 6

Enter a 4 digit number. Do Not use 0 0 0 0 as this will disable the user code. After acceptance of each code a double beep is given and the system returns to user programming.

### 3.04 Setting Secure Zones

Secure Zones act as normal zones except if the system is disarmed by user code 6 whereupon those zones programmed as secure zones, remain armed.

If a Secure Zone is activated after the system has been disarmed by user code 6, internal sirens will sound only. User code 6 can silence the alarm and arm the system again, but can not reset the secure zones.

Upon enter user code master or user codes 2-5 the secure zone or zones will flash indicating activation. After entering your user code press RESET to reset the system.

To set secure zones from user programming mode:

Press:  Tamper LED illuminated.

Secure Zones  
None

Enter zone numbers to set as secure zones, (zone LED will flash if set as secure zone). Toggle corresponding zone key number to enable or disable secure zones.

Example: Programming zone 2 as secure zones from user programming mode:

Press:  Tamper LED illuminated.

Secure Zones  
None

Press:  zone 2 illuminated.

Secure Zones  
Zone 2

Press:  Tamper LED illuminated

User  
Programming

### 3.05 Setting Chime Zones

If a zone programmed as a chime is activated in day mode, the internal siren and K6600 LCD remote keypad will beep to indicate activation of that zone. This allows you to monitor children or people in your premises or home.

To set chime zones from user programming mode:

Press:  LED illuminated.

Chime Zone  
None

Enter zone numbers to set as chime zones, zone LED will flash if set as chime zone. Toggle corresponding zone key number to enable or disable chime zones.

Example: Programming zone 1 as a chime zone from user programming mode:

Press:  PA LED illuminated.

Chime Zone  
None

Press:  Zone 1 LED illuminated.

Chime Zone  
1

Press:  Tamper LED illuminated.

User  
Programming

### 3.16 Exit User Programming

To exit user programming and return to day Mode:

Press:  Tamper LED extinguished.

System Ready  
Melcom

## 4.00 System Test

It is recommended that you test the system once a week to ensure that it is working correctly.

To test the system:

Press:	<input type="text" value="PROG"/>	All Red LEDs illuminate.	<b>K6600 LCD DISPLAY</b>			
Enter:	<input type="text" value="?"/>	<input type="text" value="?"/>	<input type="text" value="?"/>	<input type="text" value="?"/>	Master User Code	User Programming
Press:	<input type="text" value="0"/>	Tamper and PA LED illuminate.	System Test			
Press:	<input type="text" value="1"/>	Tests strobe.	System Test Strobe			
Press:	<input type="text" value="2"/>	Tests external siren.	System Test External Siren			
Press:	<input type="text" value="3"/>	Tests high volume internal alarm	System Test Volume High			
Press:	<input type="text" value="4"/>	Tests low volume internal alarm	System Test Volume Low			
Press:	<input type="text" value="5"/>	Testing sensors and detectors, follow Manufacturer's instructions supplied with units on how to test in this manner.	System Test Zone Test			
Press:	<input type="text" value="0"/>	Exits system test and returns to user pro- gramming.	System Test			
Press:	<input type="text" value="RESET"/>	<input type="text" value="RESET"/>	Exits user programming and returns to Day Mode.	System Ready Melcom		

<b>4.01 QUICK USER REFERENCE GUIDE</b>		
Full Guard Arming Option 1	Enter User Code	Leave premises via exit route
# Full Arming Guard Option 2	Press: <b>SET</b> 3 seconds	Leave premises via exit route
Part Guard Arming Option 1	Enter User Code Press: <b>SET</b>	Leave to none protected area of building
# Part Guard Arming Option 2	Sleep Watch Keypad Press: <b>SLEEP</b> for 3 seconds	Sleep Button illuminates Red
Silent Set	Press: <b>PROG</b> during exit time	Keypad no beeps
Omit Zones Full Guard	Press: <b>OMIT</b> after entering user code, enter zone number Press: <b>OMIT</b>	Omit LED illuminates
Omit Zones Part Guard	Press: <b>OMIT</b> after entering user code, enter zone number Press: <b>OMIT, SET</b>	Omit LED illuminates
Full Guard Disarming	Enter User Code	Day LED illuminates
Part Guard Disarming Option 1	Enter User Code	Day LED illuminates
# Part Guard Disarming Option 2	Sleep Watch Keypad Press: <b>SLEEP</b> for 3 seconds	Sleep LED extinguishes
Disarming After Alarm Activation	Enter User Code Press: <b>RESET</b>	Day LED illuminates
Panic Keypad	Press: <b>SET, OMIT, SET SOS)</b>	Day LED flashes
Memory Recall	Press: <b>PROG</b> , Enter Master User Code Press: <b>MEM</b>	Last Activation Display First

**Note:**

**To use those options marked with “#”, ask your installation engineer to program them.**

**Important:**

**If after 14 key presses a valid code has not been entered the keypad will not accept any entries for 2 minutes. You must wait then re-enter your user code.**

**Do not leave this quick reference guide with your user codes near the control panel.**

<b>4.02 USER PROGRAMMING NOTES</b>		
<b>Function</b>	<b>Factory Settings</b>	<b>User Settings</b>
Master User Code	1 2 3 4	
User Code 2	Disabled	
User Code 3	Disabled	
User Code 4	Disabled	
User Code 5	Disabled	
User Code 6	Disabled	
	<b>Secure Zones</b>	
Zone 1	Clear	
Zone 2	Clear	
Zone 3	Clear	
Zone 4	Clear	
Zone 5	Clear	
Zone 6	Clear	
	<b>Chime Zones</b>	
Zone 1	Clear	
Zone 2	Clear	
Zone 3	Clear	
Zone 4	Clear	
Zone 5	Clear	
Zone 6	Clear	

**Note:**

*The alarm system can provide valuable protection for your home and property if used properly. However, the system can not guarantee complete protection against burglary or robbery. Therefore, the manufacturer, distributor or supplier will not be held responsible for any loss or damage that may occur. Every effort has been made to provide accurate information, however, slight variations can occur. We reserve the right to make changes for product improvement at anytime.*

<b>4.03 PROBLEM AND FAULT INDICATION</b>		
<b>LED Indication</b>	<b>Fault</b>	<b>Action</b>
Mains LED RED	Mains Supply Failure	Call installer if you do not have a general mains power failure.
Mains LED Flashing RED	Mains Supply Failure and Low Battery.	Call installer to check the battery if LED remains on.
Mains LED Flashing Orange	Low Battery	Call installer to check the battery if LED remains on
Day LED Flashing	Enter user code if Zone LED illuminates Zone Fault.	Check the zone for faults. Call Installer if you cannot clear.
Day LED Flashing	Enter User Code if no Zone LED illuminates, and Day LED still Flashing.	System Requires Service, call installer.
Tamper LED Illuminated	In Day Mode Tamper LED illuminated, Tamper Fault.	Call installer.
PA LED Illuminated	Can Not Arm System.	Panic button not reset, also press RESET.
Zone LED Illuminated	When arming system it will not arm.	Check zone to see if you can clear the fault, if not OMIT that zone from system and call installer to check that zone.
Keypad Accepts No Presses	Keypad Tamper Activated	Wait 2 minutes and try again. If no correct code entered after 4 attempts the keypad stops working for 2 minutes.

**Note:** *There are no user serviceable parts contained within this control panel.*

**DO NOT attempt to interfere with, or alter any of the electronic components. To do so may damage the electronic circuitry and will invalidate your warranty.**

