Section

CONTENTS

1.00	Control Panel Installation	2
1.01	Introduction to Control Donal	2
1.01		2
1.02	Pre-installation Testing	2
1.03	Mounting Control Panel	2
1 04	Wiring and Safety Information	3
1.04	STG100 Drinted Circuit Board Wiring Terminals	3
1.05	ST6100 Printed Circuit Board Winng Terminals	4
1.06	ST6550 & ST6600 Printed Circuit Board Wiring Terminals	4
1.07	K6550 LED & K6600 LCD Remote Keypad Printed Circuit Board Wiring Terminals	4
1.08	SI 6600 Sleen Watch Keypad Printed Circuit Board Wiring Terminals	1
1.00	CTC100 CTC550 Control Department Control Departments	4
1.09	S16100, S16550 & S16600 Control Panel Wiring Terminal Description	5
1.10	K6550 LED & K6600 LCD Remote Keypad Wiring Terminal Description	5
1.11	SL6600 Sleep Watch Keypad Wiring Terminal Description	5
1 1 2	ST6100 ST6550 & ST6600 Fuse Specifications	5
1.12	Wiring External Ball Payso	5
1.13	Willing External beil boxes	6
1.14	Wiring Passive Infrared Detectors	7
1.15	Wiring System Tamper	8
1.16	Wiring Magnetic Contacts	8
1 17	Wiring K6550 LED & K6600 LCD Remote Keypad	õ
1.17	Wining Clock Concernment Reported Kaynad	9
1.18	Winng SL6600 Sleep Watch Remote Reypad	9
1.19	Wiring Remote Key Switch	10
1.20	Commissioning the System	10
1 21	Trouble Shooting	11
2.00	Engineer Installation Programming Section	40
2.00		13
2.00	Control Panel Factory Default Settings	13
2.01	Day Mode	14
2.02	Engineer/Installation Programming	14
2.03	Exit Time Adjustment	1/
2.00		14
2.04		14
2.05	Siren Duration Time Adjustment	14
2.06	Part Guard Exit Time Adjustment	15
2.07	Disable/Isolate Zones in Part Guard	15
2 08	Sleen Watch Delay Time Adjustment	15
2.00		15
2.09	Enable Sleep Watch Automatic Ream	15
2.10	Sleep Watch Automatic Rearm Time Adjustment	15
2.11	Enable Sleep Watch Arm and Disarm Part Guard	16
2.12	Display Engineer Message on K6600 Remote LCD Keypad	16
2 1 3	Display Zone Location Names on K6600 Remote LCD Keynad	16
2.10	Missellepeque Section 1	10
2.14	Niscenarieous Section 1	17
2.15	Enable Quick Set	18
2.16	Enable Special Switched Positive	18
2.17	Enable Exit Strobe Flashes	18
2.18	Enable Engineer Reset	10
2.10		10
2.19	Enable Engineer Burn In Code	18
2.20	Enable Push Button Final Set	18
2.21	Enable Day LED Illuminated Day Mode	19
2 22	Enable Entry Timed Out Full Alarm	10
2.23	Enable Switched Positive 0 Volts	10
2.23		19
2.24	Zone Type Description	19
2.25	Changing Full Guard Zone Type	20
2.26	Changing Part Guard Zone Type	21
2.27	Change Engineer Programming Code	21
2.29		21
2.20	Oct Octivity Tillici	22
2.29	Set System Date	22
2.30	Set System Time	22
2.31	Exit Engineer Installation Programming	23
2.32	Reset Control Panel to Factory Default Settings	22
2 22	Reset Control Panel without Loging Engineer Log	20
2.00	Reserved Taner without Losing Lighteer Lug	23
3.00	Engineer Reference Guide	24
3.01	Engineer Programming Record	26
4.00	Control Panel Technical Specifications	28

1.00 Control Panel Installation

1.01 Introduction to the Control Panel

The control panel has been designed for both installer and user friendliness. The factory default settings have been carefully selected to suit most installation needs. However most functions are fully programmable for flexibility when installing the system. All changes made are stored within a Non Volatile Memory (NVM) and are retained even when there is complete loss of power.

Please read these instructions carefully before attempting to install this control panel. Ensure the user instructions are given to the user after installation.

1.02 Pre-testing the Control Panel before Installing

- 1. Unscrew the two screws from the front cover.
- 2. Remove the cover and put in a safe place with the screws. If connecting a K6550 LED or K6600 LCD remote keypad follow instructions as described within the keypad.
- 3. Connect a fully charged 12V 1.2 7.0Ah sealed lead acid battery, black lead wire to the negative (-) of the battery terminal and the red lead wire to the positive (+) of the battery terminal.
- 4. The control panel day LED will flash and also the mains LED will illuminate red indicating running from battery power. The tamper LED will illuminate, indicating a tamper fault. Hold down the tamper spring and fix under the on-broad keypad (ST6100 only) the tamper LED will extinguish.

Note: If mains Red LED is flashing, this indicates low battery. Change the battery before proceeding with testing the control panel.

- 5. Press: PROG Zone LEDs illuminated.
- 6. Enter: 1 2 3 4
- 7. Press: 0 5 Walk test (PA & Tamper give the same tone)
- Remove and replace each zone link, the corresponding zone LED will illuminate and also beep indicating which zone is activated. After testing all the zones and tamper, release tamper switch spring.
- 9. Press: RESET twice, disconnect and remove the battery.

System Ready Melcom

K6600 LCD Display

User

Programming

These simple tests will demonstrate that the control panel (and remote keypad if fitted) are working correctly. Disconnect the battery from the control panel in preparation for wiring.

1.03 Mounting the Control Panel

The main control panel unit should be positioned out of reach of children in a secure place close to a mains electricity supply. The unit should not be fitted to a flammable or uneven surface.

- 1. Remove the PCB by disconnecting the AC supply cable from the transformer and also from the speaker connector, put the PCB in a safe place.
- 2. Using the rear panel as a template, mark the positions of the mounting holes. The mounting surface must be solid. Do not fit to a flammable or uneven surface. Drill mounting holes and fit wall plugs.
- 3. Thread the mains supply AC power cable through the smaller aperture in the rear casing. *At this stage, do not connect the AC supply cable to the panel.*
- 4. Attach rear panel to wall using at least three 30mm No.8 wood screws.
- 5. Replace the PCB and reconnect the AC and speaker connectors.



- 1. The control panel must be wired according to Current National Wiring Regulations if fitted with an internal transformer.
- 2. A readily accessible device for disconnecting from the mains (e.g. 3 amp un-switched fused spur) must be provided as part of the installation.
- 3. If the control panel is wired to a 13 amp wall socket, a 3 amp 250V fuse must be used
- 4. Use mains 2 core cable and earth cable capable of carrying the rated current (i.e. at least 1mm²). The control panel must be wired to earth.
- 5. Wiring of the mains supply to the transformer terminal block in the control panel should pass through the smaller aperture in the rear casing of the panel, NEVER connect the mains supply directly to the PCB.
- 6. The unit requires wiring to a suitable earth, refer to National Wiring Regulations.
- 7. It is recommended that the unit is wired by a qualified electrician. Check for hidden cables and/or pipes before drilling.
- 8. Use safety goggles when drilling or hammering in cable clips.

1.05 ST6100 Printed Circuit Board (PCB)



1.06 ST6550 & ST6600 Printed Circuit Board (PCB)







1.08 SL6600 Printed Circuit Board



1.09	PCB Terminals ST6100, ST6550 & ST6600	
Terminal	Description	Remarks
E	Earth	Connect to Ground
N/C	Normally Closed Relay Contact Rated at 0.5A 12Vdc	Dry Contacts for Auto Dialer
СОМ	Relay Common	
N/O	Normally Open Relay Contact Rated at 0.5A 12Vdc	Dry Contacts for Auto Dialer
AUX 1 -	Regulated Auxiliary Supply Negative	
AUX 1 +	Regulated Auxiliary Supply Positive	Maximum Output 250mA
SW +	Switched Positive Supply	Maximum Output 250mA
STB +	Latching Strobe Positive Supply	
STB -	Latching Strobe Negative Supply	
BELL +	Bell Positive Supply	
BELL -	Bell Negative Supply	
SPK +	Loud Speaker 12Vdc Positive Output	
SPK -	Loud Speaker 12Vdc Negative Output	
AUX 2 -	Regulated Auxiliary Supply Negative	Keypad & Sleep Watch
AUX 2 +	Regulated Auxiliary Supply Positive	Keypad & Sleep Watch
NETWORK B	Remote Keypad & Sleep Watch Data In	
NETWORK Y	Remote Keypad & Sleep Watch Data Out	
KEYPAD W	Main Unit Battery Supply Data Out	
KEYPAD G	Main Unit Mains Supply Data Out	
SAB 1 OV	1st Self Contained Bell Output (SCB)	Leave Link In If Not Used
SAB 1 RT	1st Self Contained Bell Output (SCB)	
SAB 2 OV	2nd Self Contained Bell Output (SCB)	Leave Link In If Not Used
SAB 2 RT	2nd Self Contained Bell Output (SCB)	
TAMP	Tamper Alarm Zone Loop	Leave Link In If Not Used
Z1-Z6	Normally Closed Positive Fully Programmable Zone Loops	Leave Link In If Not Used
Z7/PA	Personal Alarm Zone Loop	Leave Link In If Not Used
1.10	PCB Terminals K6550 LED & K6600 LCD Remote Key	pad
Terminal	Description	Remarks
AUX -	Negative	Supply From AUX 2 -
AUX +	Positive	Supply From AUX 2 +
NETWORK Y	Remote Keypad & Sleep Watch Data In	
NETWORK B	Remote Keypad & Sleep Watch Data Out	
KEYPAD W	Main Unit Battery Supply Data Out	Indicates Mains Power/No Power
KEYPAD G	Main Unit Mains Supply Data Out	Indicates Low Battery/No Battery
1.11	PCB Terminals SL6600 Sleep Watch Keypad	
Terminal	Description	Remarks
AUX -	Negative	Supply From AUX 2 -
AUX +	Positive	Supply From AUX 2 +
NETWORK Y	Sleep Watch Data In	
NETWORK B	Sleep Watch Data Out	
1.12	Fuses ST6100, ST6550 & ST6600	
Fuse	Description	Rating
POWER	Power Supply Output Fuse	Fast Blow F1.6A, 250V, 20 X 5mm
AUX	Auxiliary Fuse	Fast Blow F1.6A, 250V, 20 X 5mm
BATT	Battery Fuse	Fast Blow F1.6A, 250V, 20 X 5mm

BELL

STB

+

0

1.13 Bell Box Wiring



6

 \odot

0 TRG

0

0

HOLD -

HOLD +

SPK +

SPK -

00

0 STB

BELL ı

+

+

6

TRG -

1.14 Wiring Passive Infrared Detectors



Single Passive Infrared Detector

Consult Passive Infrared Detectors manufacturers installation instructions before wiring to control panel.

If two or more Passive Infrared Detectors are wired to a zone, wire power in parallel, wire alarm and tamper in series.

Use 6 core multi stranded cable .

Terminal	Connection	Wire Colour
AUX 1 +	Detector Positive (12+)	White
AUX 1 -	Detector Negative (0V)	Green
Z1-Z6	NC	Black
Z1-Z6	С	Red
System Tamper	Tamper	Yellow
System Tamper	Tamper	Blue



Three Passive Infrared Detectors Wired in Series

1.15 Wiring System Tamper



1.16 Wiring Magnetic Contacts

Single Magnetic Door Contact



Three Magnetic Door Contacts Wired in Series



1.17 Wiring K6550 LED & K6600 LCD Remote Keypad



1.18 Wiring SL6600 Sleep Watch Remote Keypad





Note: Use only a non latching momentary key switch with an LED or push button with this panel. The yellow LED operates exactly as the day LED on the control panel and therefore tells you if the panel is armed or disarmed. You can only wire either a key switch option number 1 or push button final set option number 2, which is the factory default setting. If using option number 1, you must disable option 2 push button final set, in engineer programming under section number 2.20.

1.20 Commissioning the System

Fit a fully charged 1.2Ah - 7Ah 12Vdc sealed lead acid rechargeable battery to the connectors inside the control panel. After fitting the battery the Tamper and mains LED will illuminate, Day LED will flash for a few seconds.

Replace the front cover of the main unit: tamper LED goes off. Switch on the mains power, mains LED will illuminate orange on the main control panel and Green on the K6550 LED & K6600 LCD remote keypad.

Go to USER manual page No.14 testing system and follow the instructions.

IMPORTANT

There are no user serviceable parts contained within the control panel and keypads.

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.

The Melcom 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 also reserve the right to make changes for product improvement at anytime.

We recommend that you check your local by-laws relating to Intruder Alarm Systems. In certain countries you are required by law to:

- 1. Notify the local police, in writing, within 24 hours of the alarm being installed, the names and address of at least two key holders of the property protected.
- 2. Instruct the key holders in the operation and silencing of the alarm.
- 3. Within 48 hours of installation, inform the local Environmental Health Authority of the installation, and which local police station you have notified.
- 4. Inform the local police of any changes of the key holders, within 24 hours of the change.

1.21 Trouble Shooting

Always disconnect unit mains supply BEFORE removing the front cover.

No Mains Power to the Control Panel (Mains Red LED)

- Check the AC fuse on the PCB, if blown replace with 1.6Amp 250V fast blow fuse.
- Check for loose wiring into the mains terminal block.
- Check for loose wiring from mains supply.
- Check AC connector is connected correctly to the control panel PCB.

No Battery Power to the Control Panel (Mains Orange LED Flashing)

- Check the Battery fuse on the PCB, if blown replace with 1.6Amp 250V fast blow fuse.
- Check Battery wires are connected correctly to the battery; Red +, Black -.

Note: If No Mains Power Supply and Low Battery this is Indicated by (Mains Red LED Flashing).

Unit Does Not Accept Code Upon Power Up

- If remote SL6600, K6550 LED or K6600 LCD keypads are connected ensure each keypad has a different address.
- Check wiring of remote keypads.
- Disconnect power momentarily so that the system can configure all keypads connected to system.
- Reset NVM to factory default settings.

Unit Will Not Set and Tamper LED on

- Check system tamper, replace link into tamper zone and replace lid to see if this clears the fault.
- Check system tamper wiring.
- Check tamper wiring to detector and sensors.

Unit Will Not Set Zone and LED Flashing

- Ensure the zone is closed (No movement in that area, windows and doors are closed).
- Check wiring to that zone, replace link and see if system sets.
- Check wiring to detector and sensors.
- If you have a meter, check the resistance to that zone.

Day LED Flashing

- Enter USER code to set system note which zone is in fault
- Ensure the zone is closed (No movement in that area, windows and doors are closed).
- Check wiring to that zone, replace link and see if system sets.
- Check wiring to detector and sensors.
- If you have a meter check the resistance to that zone.

Unit Makes No Sound

• Ensure that the internal speaker is connected to PCB.

Remote Keypad Does Not Indicate Power

- Ensure you are using 6 core wire and that they are wired correctly to keypad and main unit.
- Check Power Fuse on Main Unit PCB, if blown replace with 1.6Amp 250V fast blow fuse.

External Bell Box Does Not Work

- Check wiring connections bell boxes on page 6.
- If not using both SAB's 1 & 2 terminals, ensure link is still connected to SAB terminal not used.

Panic Button Does Not Work

- Ensure zone type is programmed as PA.
- Check wiring to control panel and panic button.
- Check panic button has been reset using the reset key.

Sleep Watch Keypad Does Not Work

- Ensure zones are programmed as Sleep Watch zones.
- Ensure each Sleep Watch Keypad has a different address to Remote Keypads or other Sleep Watch Keypads.
- Check wiring to control panel and Sleep Watch Keypad.
- Check Power Fuse on Main Unit PCB, if blown replace with 1.6Amp 250V fast blow fuse.

2.00 Engine	er Installa	tion Programming So	ection	
2.00 Co	.00 Control Panel Factory Default Settings			
The control panel is pre-set to the for programming mode and engineering	ollowing setti g programmi	ngs. Most of these settining mode.	gs can be changed in the customer	
Entry time		30 Seconds		
Exit Time		30 Seconds		
Alarm Time		15 Minutes		
Part Guard Set Time		5 Seconds		
Sleep Watch Zone Delay Activation	Time	15 Seconds		
Sleep Watch Zone Automatic Rearn	n Time	15 Minutes		
	Full Guard	l	Part Guard	
Zone 1	Timed Entr	y/Exit	Timed Entry/Exit	
Zone 2	Walk Throu	ıgh	Walk Through	
Zone 3	Instant		Timed Entry/Exit	
Zone 4	Instant		Instant	
Zone 5	Instant		Instant	
Zone 6	Instant		Instant	
Zone 7/PA	Personal A	larm	Personal Alarm	
Zone 8/Tamper	Tamper		Tamper	
Chime Zones		Clear		
Date & Time		Clear		
Day LED On		Enabled		
Disabled/Isolated Zones		Clear		
Double Knock Zones		Clear		
Engineer Code		9999		
Engineer Code Burn In		Disabled		
Engineer Service Timer		Disabled		
Engineer Reset		Disabled		
Entry Time Timed Out Alarm		Disabled		
Final Set		Disabled		
Fire Zones		Clear		
Master User Code		1 2 3 4		
Push Button Final Set		Enabled		
Quick Set		Disabled		
Secure Zones		Clear		
Sleep Watch Zones		Clear		
Sleep Watch Keypad Disarm Part Guard		Disabled		
Strobe Exit Flashes		Disabled		
Switched Positive		Normal		
User Codes 2,3,4,5,6		Disabled		

Day Mode 2.01

This is the normal (default) setting of the control panel. The alarm will only activate if the PA, Fire Zones or Keypad PA are activated.

2.02 Engineer Installation Programming	
To enter the engineer programming mode:	K6600 Keypad
Press: PROG All red LED's illuminated.	Display
Enter : 1 2 3 4 Zone LEDs extinguished. TAMPER and DAY LEDs stay illuminated.	User Programming
Press: PROG All red LEDs illuminated.	
Enter : 9 9 9 9 Zone LEDs extinguished. PA and DAY LEDs stay illuminated.	Engineer Programming
You are now in Engineer Programming. Parameters can be adjusted as described in sections 2.03 to 2.30.	r user manual

2.03 Exit Time Adjustment

This is pre-set at 30 seconds. Exit time is the maximum period of time between setting the alarm, and leaving the property via the EXIT route.

Press: Zones 1,2,3 LEDs illuminate 1

Input a new Exit time (max. 255 seconds). Eg. for 70 seconds input 070, for 95 seconds input 095, etc. When the third digit is input the panel will give an acceptance tone and will revert back to ENGINEER PROGRAMMING MODE.

Engineer Programming

Exit Time 030

Entry Time Adjustment 2.04

This is pre-set at 30 seconds. Entry time is the maximum period of time between activation (opening of front door) of ENTRY/EXIT route and the alarm sounding. It will allow time to enter the property and switch off the system.

Zones 1,2,3 LEDs illuminate Press: 2

Input a new Entry time (max. 255 seconds). Eg. for 45 seconds input 045, for 15 seconds input 015, etc. When the third digit is input the panel will give an acceptance tone and will revert back to ENGINEER PROGRAMMING MODE.

030 Engineer Programming

Entry Time

Note: To comply with EN50301-1 entry time should not exceed 45 seconds, also

internal siren activates if user code not entered before timing out, full alarm 30 seconds later.

2.05 Siren Duration Time Adjustment

The Siren Duration time is pre-set to sound for 15 minutes, when activated. Do not set the alarm for a longer period than that specified by legislation. You can adjust the siren to sound for less than 15 minutes.

Press: 3 Zones 1,2,3 LEDs illuminate

Input a new Siren time (max. 255 minutes). Eq. for 10 minutes input 010, for 5 minutes input 005, etc. When the third digit is input, the panel will give an acceptance tone and revert back to ENGINEER PROGRAMMING MODE.



Note: To comply with EN50301-1, siren time must be adjusted between 2 minutes (002) and a maximum duration of 1 5 minutes (015).

2.06 Part Guard Exit Time Adjustment	
Part Guard set time is the maximum period of time between setting the alarm, and leavi area, this is pre-set at 5 seconds.	ng the protected
Press: 4 1 Zones 1,2,3 LEDs illuminate	Part Guard Time 005
Input a new time (max. 255 seconds). Eg. for 10 seconds input 010, for 25	
seconds input 025, etc. When the third digit is input the panel will give an accep- tance tone and revert back to ENGINEER PROGRAMMING MODE.	Engineer Programming
2.07 Set Zones Disabled/Isolated in Part Guard	
In this location enter zones to be Disabled/Isolated in part guard arming.	
Press: 4 2 Enter zone numbers to be omitted the corresponding LEDs will flash.	Zones Disabled None
To reset that zone, toggle the corresponding zone	
Press: RESET	Programming
2.08 Set Sleep Watch Zone Delay Activation Time	
In this location activation of a sleep watch zone will not activate a full alarm until after the has timed out, this is pre-set at 15 seconds.	e zone delay time
Press: 4 3 Zones 1,2,3 LEDs illuminate	S/W Delay Time 015
Input a new time (max. 255 seconds). Eg. for 10 seconds input 010, for 25 seconds input 025, etc. When the third digit is input the panel will give an acceptance tone and revert back to ENGINEER PROGRAMMING MODE	Engineer Programming
Note: If a sleep watch zone is activated a valid user code must be entered to stop activation sequence.	
2.09 Enable Sleep Watch Zones Automatic Rearm	
In this location, after the user has pressed the sleep watch button to disarm sleep w automatically rearm after the period of time programmed in location section 2.10 has tim	vatch zones, they will ned out.
Press: 4 4 Zone 1 LED Flashing = Sleep Watch automatic rearm enabled. Toggle Key 4 to disable function.	S/W Rearm Disabled
Press: RESET and revert back to ENGINEER PROGRAMMING MODE.	Engineer Programming
2.10 Sleep Watch Zone Automatic Rearm Time	
In this location, set sleep watch zones automatic rearm time, this is pre-set at 15 minute	es.
Press: 4 5 Zones 1,2,3 LEDs illuminate	S/W Rearm Time 015
Input a new time (max. 255 minutes). Eg. for 10 minutes input 010, for 25	
minutes input 025, etc. When the third digit is input the panel will give an acceptance tone and revert back to ENGINEER PROGRAMMING MODE.	Engineer Programming

Enter: 3

5

2.11 Enable Sleep	Watch Arm and D	Disarm Part Guard		
The Sleep Watch keyp 3 seconds.	ad can be programm	ed to arm and disarm	part guard by pressir	ng the Sleep button for
Press: 4 6 Zone 1 LED Flashing = Sleep Watch keypad disarm part guard enabled. Toggle Key 6 to disable function.			S/W Disarm Enabled	
Press: RESET and reve	ert back to ENGINEEF	R PROGRAMMING N	NODE.	Engineer Programming
2.12 Set Installer I	Message			
Enter the following opti operation mode.	ions to display installe	er message on the K6	600 remote LCD keyp	ad when in normal
Press: 4 7				Message
16 characters can be prepresent the character the curser use the MEN	programmed as the in ar required to be disp M key to move left and	nstaller message. En layed on the LCD ke d the OMIT key to mo	ter the 2 digits to eypad. To move ove right.	
Press: RESET When	message is complete			Engineer Programming
Valid Entries:				
00. Space 01. (02.) 03. * 04. , 05 06 07. / 08. 0 09. 1 10. 2 11. 3 12. 4 13. 5	14. 6 15. 7 16. 8 17. 9 18. A 19. B 20. C 21. D 22. E 23. F 24. G 25. H 26. I 27. J	28. K 29. L 30. M 31. N 32. O 33. P 34. Q 35. R 36. S 37. T 38. U 39. V 40. W 41. X	42. Y 43. Z 44. a 45. b 46. c 47. d 48. e 49. f 50. g 51. h 52. i 53. j 54. k 55. l	56. m 57. n 58. o 59. p 60. q 61. r 62. s 63. t 64. u 65. v 66. w 67. x 68. y 69. z
2.13 Remote K6	600 LCD Keypad 2	Zone Location Dis	play Names	
Each zone can be give K6600 remote LCD key	en a location name fr ypad display if that zo	om the list below. The is activated or has	ne location name will t s a fault upon arming t	be displayed upon the he system.
Press: 4 8 Enter zone number Zone Name			Zone Name	
Enter corresponding zo	one name number fro	m list below		
Example: Zone 1 as Fr	ont Door enter 35			
Press: 1				Zone 1

Zone 1 Front Door

Programming					
Press	RESET				Zone Name
Press	: RESET and revert b	ack to ENGINEER	PROGRAMMING MO	DE.	Engineer Programming
01. 02. 03. 04. 05. 06. 07. 08. 09. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30.	Alarm Apartment Auxiliary Babies Room Back Door Back Yard Barn Basement Bathroom Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Boys Room Building Ceiling Coatroom Computer Room Daughters Room Desk Dining Room Dock Downstairs Driveway East Room Studio Emergency Entry & Exit File Fire	31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60.	Floor Foyer Freezer Fridge Front Door Gallery Garage 1 Garage 2 Gas Gate 1 Gate 2 Gymnasium Guestroom Hallway Hold Up House Internal Door Interior Kitchen Laundry Library Loading Area Lock Lounge Area Maids Room Master Bedroom Medical Mothers Room Nursery Office	61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88.	Outside Panic Patio Perimeter Police Pool Reception Roof Safe Shed Shop Skylight Sliding Door Smoke Detector Store Room Studio Study Sun Room Tamper Utility Vault Ware House Wash Room West Room Window Work Shop Yard

2.14 Miscellaneous Section 1

In this section under programming key 5 you can enable or disable any of the following features:

Section	Key No.	Description	Zone LED	Factory Setting
2.15	1	Quick Set	1	Disabled
2.16	2	Special Switch Positive	2	Disabled
2.17	3	Exit Strobe Flashes	3	Disabled
2.18	4	Engineer Reset Any Alarm	4	Disabled
2.19	5	Engineer Code Burn In	5	Disabled
2.20	6	Final Set Push Button	6	Enabled
2.21	7	Day Mode LED illuminated	PA	Disabled
2.22	8	Entry Time Timed Out Alarm	Tamp	Disabled
2.23	9	Switch Positive 0 Volts	Day	Disabled

Press: 5

if any features under this section have been enabled, the corresponding LED is illuminated or displayed upon LCD remote keypad.

Note: To enable or disable any of the above options, toggle the corresponding key number. After entering options under this section press RESET to save changes and exit this location.

2.15 Enable Quick Set

After enabling this option, the system maybe armed by pressing the set key for 3 seconds, this will begin the full set arming sequence without entering a user code.

Press: 1 zone 1 LED Flashing = Quick Set enabled.

Quick Set Enabled

Note: If this function is enabled the installation will not comply with EN50130-1 requirements.

2.16 Enable Special Switched Positive

The programmable Switched Positive is a unique feature of this control panel. In the factory default, the Switched Positive behaves in a normal manner (going high when the panel sets and low when the panel is switched off) for latching passive infra-red detectors. In the Special Switched Positive, this output can be used for impact sensors which require the power to be removed to reset them.

This output will give out up to 200mA as a positive supply to these detectors, which will behave in the manner described below.

When enabled the Special Switched Positive will be high, but when the panel is switched on Switched Positive goes low for 5 seconds, to reset the sensors. In the case of activation, even if the panel is reset, the power will remain on the impact sensors until the panel is switched back on again. This enables the information from the impact sensors to be retained.

Press: 2 zone 2 LED illuminated = Special Switched Positive enabled.

Special Set Pos Enabled

2.17 Enable Exit Strobe Flashes

When this function is enabled upon setting the system in full guard the strobe will give 5 flashes indicating

Press: 3 zone 3 LED illuminated = Strobe Exit Flashes enabled.

Strobe Flashes Enabled

2.18 Enable Engineer Reset

When this function is enabled, it prevents the user from resetting the system in the event of a Full alarm, PA or Tamper alarm activation. System can only be reset after entering the engineer code and pressing reset after the alarm has been silenced, by entering a valid user code.

Press: 4 zone 4 LED illuminated = Engineer Reset enabled.

Engineer Reset Enabled

2.19 Enable Engineer Code Burn In

When this function is enabled, the engineer code will be retained in the memory and can not be changed even if the control panel is reset to factory default setting. In the event you forget your code PCB must be returned to supplier for repair.

Press: 5 zone 5 LED illuminated = Engineer Code Burn In enabled.

Code Burn In Enabled

2.20 Enable Final Set Push Button

The Final Set push button is used to Final Set the system after you have entered a code to arm the system by pressing the button during exit time it will stop the exit timer and immediately arm the system. The button should be installed on the outside of the protected area. During Day Mode and Part Guard it will act has a door bell giving a chime sound when pressed. You can not use a key switch to arm and disarm system if Final Set push button enabled.

Programming	
Press: 6 zone 6 LED illuminated = Final Set Push Button enabled.	F/S Push Button Enabled
2.21 Enable Day LED	
After enabling this option, the system Day LED will stay illuminated in Day Mode, when	system is disarmed.
Press: 7 PA LED illuminated = Day LED stays illuminated enabled.	Day LED On Enabled
2.22 Entry Time Full Alarm	
After enabling this option, the system will go into full alarm, if the entry time times out be code is entered.	efore a valid user
Press: 8 Tamper LED stays illuminated = Entry Time Full Alarm enabled.	Entry Alarm Enabled
2.23 Switched Positive 0 Volts	
After enabling this option, the Switched Positive will act in the following way. In armed r O Volts, any alarm activation 12 Volts. Enable this feature if using a melcom AD1000 vo	node and day mode bice auto dialer.
Press: 9 Day LED Flashing = Switched Positive 0 Volts enabled.	Switched Pos 0V Enabled

Note: Special Switched Positive & Normal Switched Positive will not work if this location is programmed.

If you have enabled any of these options, Quick Set, Day LED or Entry Time Full Alarm the system will not comply with current European alarm installation regulations. After entering options under section 5, press RESET key to exit this location.

2.24 Zone Description

Exit

With the panel in DAY mode, if a valid user code is entered, the control panel will go into it's armed sequence. If any zone is at fault, the control panel will stop it's count down until that zone is cleared or omitted from the system, then will carry on arming the system.

Entry

When the panel is set and the entry zone is triggered, the entry timer will begin its countdown. During this period, the remote keypad will give a repeated beep and will beep faster when nearly timed out. If the time is allowed to elapse before any valid user code is entered, the control panel will go into alarm state. In this case the system needs to be Reset by pressing the RESET key after a valid user code has been entered to disarm the system.

Walk Through

This zone allows access without the alarm activating provided that the exit/entry zone as been activated before this zone.

Instant

This zone will create an alarm condition immediately if the control panel is set.

24 Hour/Tamper

A Tamper zone activation will only generate an internal alarm if the panel is in DAY mode. Triggering of the tamper zone when the panel is set will always give an external as well as internal alarm

Personal Alarm (PA)

Triggering of the personal attack (P.A.) zone will always cause a full alarm regardless of whether or not the panel is set.

Fire Zone

Triggering of the fire zone will operate internal & external sounders giving an intermittent sound, which is easily distinguished from the normal alarm sound.

Note: Fire zones are intended as an extra feature to the alarm system and must not be regarded as a total fire protection system.

Final Set

If a Entry/Exit zone is programmed as final set, upon arming the system and leaving by the Entry/Exit route the system will arm immediately once the Entry/Exit zone is clear without waiting for the exit timer to time out.

Double Knock

When a zone is programmed as a Double Knock zone, it requires two activations within 30 seconds before creating an alarm condition when panel is set.

Disabled/Isolated

When a zone is programmed has a Disabled/Isolated zone, it is ignored in the event of any activation. It allows the user to continue using the alarm system even if a fault has been discovered on one or more zones.

2.25 Changing Full Guard Zone Type

Key No.	Function	Zone LED	Factory Default
1	Timed Entry/Exit	1	Zone 1
2	Walk Through	2	Zone 2
3	Instant	3	Zone 3,4,5,6
4	Personal Alarm (PA)	4	Zone 7/PA
5	24 Hour (Tamper)	5	Zone 8/Tamper
6	Fire	6	Clear
7	Final Set	PA	Clear
8	Double Knock	Tamper	Clear
9	Zone Disable/Isolated	Omit	Clear

All zones can be changed to any status listed below:

Changing a zone status:

Press:	6	All zone LEDs and PA flashing.
	~	

Enter zone number to be changed, the zone present status will be indicated by zone LEDs.

Press: **PROG** Enter required key function number, the corresponding key number is shown by zone LED.

Press: RESET Press: RESET to return back to engineer programming.

Example: Programming zone 5 as Entry/Exit zone.



2.26 Changing Part Guard Zone Type

All Part Guard zones can be changed to any status listed below:

Key No.	Function	Zone LED	Factory Default
1	Timed Entry/Exit	1	Zone 1 & 3
2	Walk Through	2	Zone 2
3	Instant	3	Zone 4,5,6
4	Sleep Watch	4	Clear

Note: If a zone is programmed as PA, 24	hr, Fire or disabled in ful	ll guard it is not possible!	to change
the status in part guard.			

Sleep Watch Zone

Sleep watch zones are like interior zones and can be armed and disarmed using the SL6600 sleep watch keypad. Sleep Watch zones are armed in part guard after the system is set and by pressing the sleep Watch button for 1 second. Upon a sleep watch zone being activated it will not instantly go into full alarm, but start a delayed activation time has programmed. This gives the user time to disarm the system if a sleep watch zone is activated accidentally by enter their code into the keypad.

Changing a zone status:

Press: 7 All zone LEDs and PA flashing.

Enter zone number to be changed, the zone present status will be indicated by zone LED.

- Press: **PROG** Enter required key function number, the corresponding key number is shown by zone LED.
- Press: RESET Press: RESET to return back to engineer programming.

Example: Programming zone 4 as sleep watch zone.

A) Press: 7	All zone LEDs and PA flashing.	Zone Status Part Guard
B) Press: 4	Zone 3 LED illuminates indicating zone 4 present status.	Zone 4 Instant
C) Press: Prog	Press: 4 Zone 1 LED illuminates.	Zone 4 Sleep Watch
D) Press: RESET To Change additiona	al zones repeat steps B,C and D.	Engineer Programming
2.27 Changing	g Engineering Code	

For security reasons it is best to use your own ENGINEER CODE rather than use the factory pre-set code .

Press:

8

Zones 1,2,3,4 LEDs illuminated.

Type in new engineer code.

After entering the forth digit the panel will give an acceptance tone and return to ENGINEER PROGRAMMING MODE, the new code will now be operative.

Enter New Code Engineer

> Engineer Programming

2.28 Enable Service Timer

To set service timer from engineer programming mode, enter one of the following options:

Press:	9	Zone LEDs will show present status.	
Press:	1	Zone LEDs not illuminated = No service timer.	Service Timer Disabled
Press:	2	Zone 1 LED illuminates = 6 weeks timer.	Service Timer 6 Weeks
Press:	3	Zone 2 LED illuminates = 6 months timer.	Service Timer 6 Months
Press:	4	Zone 3 1LED illuminates = 12 months timer (12.5 months +/- 1%).	Service Timer 12 Months
Press:	5	Zone 4 LED illuminates = 100 event timer (arming and disarming is an event).	Service Timer 100 Events
Press:	6	Zone 5 LED illuminates = 200 event timer.	Service Timer 200 Events
Press:	7	Zone 6 LED illuminates = 800 event timer.	Service Timer 800 Events
Press:	RESET	After entering required service timer.	Engineer Programming

Once the pre-set service time has timed out, the Tamper LED will flash and continue until the engineer programming code has been entered. If the service timer is required again then the service timer must be reprogrammed. The control panel will continue to function once the service timer has timed out.

Note: Entering engineer programming, will not reset the service timer once set, unless service timer has time out.

2.29 Setting System Date

The date will only be displayed if the system is fitted with a K6600 remote LCD keypad. In the event of an alarm activation, the date is stored in the memory log.

|--|

Enter date using 2 digits to represent Year, Month and Day. The year should be entered first, followed by month and day, date will be displayed on LCD DD-MM-YY.

After entering Day, it will revert back to engineer programming. To check date entered, enter this location again, re-enter date if wrong.



Engineer Programming

Note: In the event of complete power failure, the Date & Time must be RESET.

2.30 Setting System Time

The time will only be displayed if the system is fitted with a K6600 remote LCD keypad. In the event of an alarm activation, the time is stored in the memory log. The time is displayed in 24 hour format.

Press: (9	9
----------	---	---

Enter time using 2 digits to represent Hours, Minutes, HH-MM

After entering minutes, it will revert back to engineer programming. To check time entered you must enter this location again, re-enter time if wrong.

Engineer Programming

Set Time

00-00

2.31 Exiting Engineer & User Programming

Press: **RESET** to exit engineer programming, Tamper LED on

Press: **RESET** to return to day mode, Day LED Flashing

2.32 Reset Control Panel to Factory Default Settings (NVM Reset)

To reset the NVM, power down the panel and short out the NVM pins, then power up and remove the short. This will reset panel to factory set condition.

2.33 Reset Control Panel without Losing Engineer Log

From Engineer Programming mode

Press: MEM

This will reset the panel to factory set conditions, but will not lose the engineers log.

3.00		Engineer Refe	rence Guide		
		User Programming (PA, Tamper	and Day LEDs On)	User Manual	Page
Press	PROG	All Zone and Day LEDs illuminat	ed		11
Press	1234	Tamper and Day LEDs Stay illun	ninated		
Press	0	System Test Mode			14
Enter:	1	Strobe Test			
Enter:	2	Bell Test			
Enter:	3	High Sounder Internal Keypad			
Enter:	4	Low Sounder Internal Keypad			
Enter:	5	Walk Test (PA and Tamper Give S	ame Tone)		
Enter:	0	Exit Test Mode			
Press	2	To Set Second User Code		Default : 0000	11
Press	3	To Set Third User Code		Default : 0000	11
Press	4	To Set Forth User Code		Default : 0000	11
Press	5	To Set Fifth User Code		Default : 0000	11
Press	6	To Set Sixth User Code		Default : 0000	12
Press	7	To Set Secure Zones = Secure Z	one LED Flashing	Press: RESET	12
Press	8	To Set New Master User Code		Default: 1234	11
Press	9	To Set Chime Zones (PA and Ta	mper LED illuminated)	Press: RESET	13
Press	RESET	Exit User Programming			13
Press	MEM	Memory Recall Last Activation S	Shown First	Press: RESET	9
		Engineer Pro	ogramming	Installation Manual	Page
Press	PROG	All Zone and Day LEDs illuminat	ed		13
Press	1234	Master User Code Tamper and D	ay LEDs Stay illuminated	Default: 1234	
Press	PROG	All Zone and Day LEDs illuminat	ed		
Press	9999	Engineer Programming Code (P	A and Day LEDs illuminated)	Default: 9999	
Press	1	Set Exit Time in Seconds		Default: 30 Seconds	14
Press	2	Set Entry Time in Seconds		Default: 30 Seconds	14
Press	3	Set Bell Rest Time in Minutes		Default: 15 Minutes	14
Press	41	Set Part Guard Exit Time in Seconds		Default: 5 Seconds	15
Press	42	Disable/Isolate Zones in Part Gu	ard	Press: RESET	15
Press	43	Set Sleep Watch Activation Zone Delay Time in Seconds		Default: 15 Seconds	15
Press	44	Enable Sleep Watch Zones Automatic Rearm, Toggle Key 4		Press: RESET	15
Press	45	Set Sleep Watch Zones Automat	ic Rearm Time	Default: 15 Minutes	15
Press	46	Enable Sleep Watch to Arm/Disa	rm Part Guard Toggle Key 6	Press: RESET	16
Press	47	Enter Installer Message Displaye	ed on Remote LCD Keypad	Press: RESET	16
Press	48	Enter Zone Description Displaye	ed on Remote LCD Keypad	Press: RESET	16
Press	5	Miscellaneous Section 1			
Enter:	1	Enable User Quick Set	Zone 1 LED On = Enabled	Toggle Key 1	18
Enter:	2	Enable Special Switched Positive	Zone 2 LED On = Enabled	Toggle Key 2	18
Enter:	3	Enable Strobe Exit Flashes	Zone 3 LED On = Enabled	Toggle Key 3	18
Enter:	4	Enable Engineer Reset	Zone 4 LED On = Enabled	Toggle Key 4	18
Enter:	5	Enable Engineer Code Burn In	Zone 5 LED On = Enabled	Toggle Key 5	18
Enter:	6	Enable Final Set Push Button	Zone 6 LED On = Enabled	Toggle Key 6	18
Enter:	7	Enable LED Day Mode	PA LED On = Enabled	Toggle Key 7	19

-		Ū.			
Enter:	8	Entry Zone Full Alarm	Tamp LED On = Enabled	Toggle Key 8	19
Enter:	9	Switched Positive 0 Volts	Day LED On = Enabled	Toggle Key 9	19
		After Enter	ring Options Press: RESET		
Press:	6	Change Zone Status Ful	I Guard: Enter Zone Number Press		20
Enter:	1	Timed Exit/Entry	LED Indication = Zone 1	Default: Zone 1	
Enter:	2	Walk Through	LED Indication = Zone 2	Default: Zone 2	
Enter:	3	Instant	LED Indication = Zone 3	Default: Zone 3-6	
Enter:	4	Personal Alarm (PA)	LED Indication = Zone 4	Default: Zone PA/7	
Enter:	5	24 Hour	LED Indication = Zone 5	Default: Zone Tamp	
Enter:	6	Fire	LED Indication = Zone 6	Default: None	
Enter:	7	Final Set	LED Indication = Zone PA	Default: None	
Enter:	8	Double Knock	LED Indication = Zone Tamp	Default: None	
Enter:	9	Disable/Isolate	LED Indication = Zone Omit	Default: None	
		After Ente	ring Option Press: RESET		
Press:	7	Change Zone Status Par	t Guard: Enter Zone Number Press		21
Enter:	1	Timed Exit/Entry	LED Indication = Zone 1	Default: Zone 1,3	
Enter:	2	Walk Through	LED Indication = Zone 2	Default: Zone 2	
Enter:	3	Instant	LED Indication = Zone 3	Default: Zone 4,5,6	
Enter:	4	Sleep Watch	LED Indication = Zone 4	Default: None	
		After Ente	ring Option Press: RESET		
Press:	8	Set New Engineer Progra	amming Code	Default: 9999	21
Press:	9	Service Timer Section			22
Enter:	1	No Service Timer	LED Indication = None		
Enter:	2	6 Weeks Service Timer	LED Indication = Zone 1		
Enter:	3	6 Months Service Timer	LED Indication = Zone 2		
Enter:	4	12 Months Service Timer	LED Indication = Zone 3		
Enter:	5	100 Events	LED Indication = Zone 4		
Enter:	6	200 Events	LED Indication = Zone 5		
Enter:	7	800 Events	LED Indication = Zone 6		
		After Ente	ring Option Press: RESET		
Press:	98	Set Date	Displayed on LCD Keypad Only		22
Press:	99	Set Time Displayed on LCD Keypad Only			22
Press:	MEM	Reset Panel To Factory Default Setting Without Losing Engineer Log			23
		Exit E	ngineer Programming		
Press:	RESET	Returns to User Programming			
		Exit	User Programming		
Press:	DEOFT	Returns to Day Mode			
	RESEI	Reset Panel to Factory Default Settings		· · · · · · · · · · · · · · · · · · ·	
	RESET	Reset Panel	I to Factory Default Settings		23

3.01 Engineer Programming Record			
Function	Factory Settings	Installation Settings	
Entry Time	30 Seconds		
Exit Time	30 Seconds		
Alarm Time	15 Minutes		
	Full Guard		
Zone 1	Timed Entry/Exit		
Zone 2	Walk Through		
Zone 3	Instant		
Zone 4	Instant		
Zone 5	Instant		
Zone 6	Instant		
Zone 7	Personal Alarm (P.A.)		
Zone 8	Tamper		
Fire Zones	Clear		
Final Set Zones	Clear		
Double Knock Zones	Clear		
Disabled/Isolated Zones	Clear		
Sleep Watch Zones Delay Activation Time	15 Seconds		
Sleep Watch Zones Automatic Rearm	Disabled		
Sleep Watch Zones Automatic Rearm Time	15 Minutes		
Sleep Watch Keypad Arm/Disarm Part Guard	Disabled		
Installer Message	Melcom		
Quick Set	Disabled		
Special Switched Positive	Disabled		
Exit Strobe Flashes	Disabled		
Engineer Reset	Disabled		
Engineer Code Burn In	Disabled		
Final Set Push Button	Enabled		
LED Day Mode Illuminated	Enabled		
Entry Timed Out Full Alarm	Disabled		
Switched Positive O Volts Day & Armed Mode	Disabled		
Date	Clear		
Time	Clear		
	Part Guard		
Set Time	5 Seconds		
Zones Disabled/Isolated	None		
Zone 1	Timed Entry/Exit		
Zone 2	Walk Through		
Zone 3	Timed Entry/Exit		
Zone 4	Instant		
Zone 5	Instant		
Zone 6	Instant		
Zone 7/PA	Personal Alarm (P.A.)		

	Sleep Watch Zones	Location
Zone 1	Clear	
Zone 2	Clear	
Zone 3	Clear	
Zone 4	Clear	
Zone 5	Clear	
Zone 6	Clear	
Zone 7/PA	Clear	

3.02	Customer Information	
Installation Engineer:		
Installation Company:		
Address:		
Address:		
Telephone Number:		
Date of Installation:		
Maintenance & Call		
Date/Time	Reason For Visit	Name of Engineer

Note: These instructions MUST NOT be stored inside the control panel The User instructions contain ESSENTIAL SAFETY INFORMATION & MUST be given to the user.

Electrical and Technical Specifications

Power Supply

Primary Mains Supply Voltage Rating: Secondary Input Voltage Rating: Maximum Total Current Rating: **Recharge Backup Battery:**

Environmental

Operating Temperature: Storage Temperature: **Maximum Humidity: EMC** Environment:

Electrical

230Vac/115Vac (±10%) 18.1Vac 1.0 Ampere 12V Sealed Lead Acid 1.2 - 7.0Ah

-10°C (14°F) to 50°C (122°F) -20°C (-4°F) to 60°C (140°F) 95% non-condensing Residential/Commercial/Light Industrial or Industrial

nA
)mA
ulated 13.5Vdc
dc
Watts 32 Ohms
2
2
Ω
2

Physical

Dimensions: Housing Material ST6100/ST6550: Housing Material ST6600: Weight ST6100/ST6550: Weight ST6600:

260mm X 225mm X 80mm Inflammable 94VO High Impact ABS Plastic 1mm Steel 1.70Kgs 2.30Kgs

K6600 Remote LCD Keypad

Electrical: Operating Voltage: 12Vdc Quiescent Current LCD Back Light Off: 16.7mA Current LCD Back Light On: 90mA Current in Alarm: 70mA Wiring: 135mm X 108mm X 80mm **Dimensions: Housing Material:**

K6550 Remote LED Keypad

Electrical: Operating Voltage: 12Vdc Quiescent Current 2 LEDs Illuminated: 15mA Current All LEDs Illuminated: 55mA Current in Alarm: 35mA 6 Core Multi-stranded Cable 7 x 0.20m²

ABS Plastic

SL6600 Sleep Watch Remote Keypad

Electrical: Operating Voltage: Quiescent Current : Wiring: **Dimensions**: **Housing Material:** Weight:

12Vdc 16.7mV 4 Core Multi-stranded Cable 7 x 0.20m² 135mm X 108mm X 80mm ABS Plastic 0.20Kgs