



A&G SECURITY ELECTRONICS Plc

A member of the Halma Group of companies.

Envoy

Installers Instruction Manual

A MULTIZONE INTRUDER ALARM CONTROL PANEL FROM THE 'STATESMAN' RANGE

The 4 zone Envoy will be suitable for the majority of residential and small commercial/industrial installations where BS 4737 is called for and can be obtained with the remote signalling prefix (RS) where this requirement is specified. The Envoy incorporates all the features that a modern security safety panel should have and extra benefits due to design features that the installer and operator will appreciate.

- MICROPROCESSOR BASED FULLY PROGRAMMABLE 4 ZONES
- EACH ZONE WITH INDEPENDENT 12 & 24 HOUR CIRCUITS
- ALL ZONES PROGRAMMABLE TO SLAVE WITH ENTRY/EXIT
- AUXILIARY/FIRE 24 HOUR CIRCUIT WITH PULSATING SOUNDERS
- 4 COMMUNICATOR OUTPUTS & SILENT P.A.
- SCB 24 HOUR INDICATOR
- P.I.R. LATCH FACILITY
- CHIME FACILITY ON ALL ZONES
- MEMBRANE KEYPAD WITH 'USER FRIENDLY' FORMAT
- BUILT IN SOUNDER WITH 9 LEVELS OF VOLUME & MUTE
- BUILT IN WATCHDOG PROTECTION
- FIRST UP LATCH & HISTORICAL DATA FROM OTHER ZONES
- METAL HOUSING & COMMUNICATOR P.C.B. ACCESS
- FULL PROGRAMME RESET & TIME
- UP TO 2 EXTENSION SPEAKERS
- LATCHED BEACON OUTPUT
- CALL ENG L.E.D.

STATESMAN RANGE

Ambassador
Diplomat
Envoy
Consul

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Statesman Accessories
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Evaluator Units
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References

BS 4737 - Part 1 1986

2 Park Street
London W1A 2BS

Telephone: 01-629 9000

IEE Regulations 16th Edition
Institution of Electrical Engineers

PO Box 26
Hitchin
Herts SG5 1SA

Telephone: 0462 53331

The Crime Prevention Officer of your local/district police force

Local Authority Environmental Health Officer (with regards to sounder timings)

INTRODUCTION

The Statesman range of control panels offers to the installer a full range of high quality British product to meet all requirements demanded by customer's Police and Insurance Companies in this rapidly growing industry.

The 4 zone Envoy is designed for the majority of residential and small commercial installations offering both the use and installer a wide range of programmable options which permits the system to be tailored to meet all requirements. To assist you in installation and connecting please read the following functional notes followed by the more detailed instruction manual and diagrams.

The Envoy control panel is offered in two versions, the Standard Model and RS (Remote Signalling). The RS version has 4 digital communicator outputs; fire, p.a., intruder and open/close, plus bell delay terminals. There is space in the Envoy to fit a digital communicator pcb within the enclosure.

FUNCTIONAL DESCRIPTION

1. Entry/Exit

Zone one is dedicated to entry and exit with engineers programmable time from 10 seconds to 90 seconds with separate setting times for both entry and exit - see page 10 for programming details. The entry time also includes pre-internal alarm, 10 seconds warning, if the PIN code has not been entered.

Each of three remaining zones are slaveable into entry and exit route and are programmed by the engineer on the initial set up procedure - see page 10.

2. Auto Reset

Following an alarm condition during panel set period the system automatically resets when the engineer programmed time has elapsed. Any circuit still in fault condition will automatically be deselected. Those that are clear are rearmed - see page 10. The number of alarm activations within a set period is factory set to 5.

3. Chime

The chime facility permits monitoring of any or all zones when the control panel is not set. This feature is particularly useful for daytime monitoring of fire doors, shop entrance doors and stock room doors, etc., plus useful for circuit detector testing since the control panel emits a short tone on operation of each circuit detector. Each zone has a different tone identifying the zone used - see page 14 for setting programme. The chime function is completely overridden when the panel is in the set condition. Chime will operate on omitted zones during day mode if programmed in.

4. Zone Omit

The user may deselect or omit any zone with the exception of the fire zone, p.a. and s.c.b. circuits. The omit function is only operative for one setting sequence of the system, i.e., when the control panel is unset, the omitted zones are overridden.

5. Keypad Code

The 4 digit keycodes may consist of any combination of numerical digits. When leaving the factory the Envoy code is preset at 0000. The user may change the code whenever he feels necessary by inserting the last code used followed by 'Keypad 7 (Code)', followed by any combination of 4 digits. These new 4 digits form the new code and will remain in memory until the above procedure is again performed. It is recommended that because of the possibility of inadvertent code change Keypad 7 should not be used as the last digit. In the event of the code being lost, the control panel should be depowered, i.e., mains off, battery disconnected for a few seconds then reconnected which will re-code the control panel back to the factory set code 0000 - see page 14.

6. Volume

The internal sounder is supplied with options of 9 levels of volume programmable by the user. This feature is useful where sleeping areas are in close proximity to the internal sounders and may cause disturbance when operating the setting procedure - see page 14 for programming.

BALTIK BEIT
 REPORT 818033

7. **Mute**
 Mute facility when operated reduces the internal sander to the lowest level for any particular setting but will return to preset level when system is unset (see page 14) or on re-entry of pin code.
8. **First Up Latch**
 L.E.D. indication is used to show the sequence of zone activations on alarm. For example, say zone 4 is the initially activated zone followed by zone 3. Once the user code has been entered to unset the control, the zone 4 L.E.D. will immediately illuminate and the steady light identifies the zone initially activated. This L.E.D. will remain lit until the user depresses the rearm, key 3. This action will illuminate zone 3 L.E.D. indicating this zone was the second zone to be activated. Depressing the rearm, key 3, again will then extinguish this zone L.E.D. ready for a reset procedure – see page 16.

9. **Fire Zone**
 This circuit is designated for fire/emergency use and is operative both in the set and unset position of the control panels. It is a closed circuit loop for use with 12v d.c. smoke detectors or breakglass call points or perhaps emergency call for help pull switches. When activated this circuit causes the control panel in either the set or unset condition to go into full alarm with the internal and external sounders operating in a toggle function on/off, on/off, identifying itself as the fire/emergency alarm.

Resetting the circuit requires the user to insert the code followed by depressing keypad 3, rearm, after the fire detector is reset.

10. **Silent P.A. Facility (RS Model)**
 A pair of terminals are supplied on this model for Silent PA option for use with telephone dialling apparatus. Depending on the type of dialling machine used with this control panel select the dry contact switch terminals on the dialler and connect directly to the Envoy bell delay terminal block. Digital communicator Eeprom chips will require programming for use with this facility.

11. **Aux DC Supply**
 The output is a regulated 13.8v d.c. supply for use with PIR detectors, ultrasonics, vibration detectors, etc., and is rated at 1 amp. For guidance we recommend that a maximum of 6 PIRs be connected to this supply.

12. **Latch Reset**
 The Terminal marked re-set is designed for latching detectors and provides 12v d.c. +ve on final set of system. Reset is achieved by insertion of user code and re-arm. Then re-insert user code, assuming you are out of 'Menu' mode, press set key, allowing system to time out and set, followed by user code again.

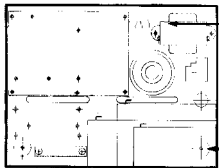
P.E.C.
 PIPELINE AND ENERGY CONTRACTORS, C.
 STATION ROAD, ELWORTH, SANDHALL
 102 701 76888
 FAX 0220 766800

SITING

Please consider the following points of view before placement.

- SAFETY** :- Internal weatherproof area with no risk of mechanical damage
- SECURITY** :- Concealment or discreet placement to avoid physical compromise.
- CUSTOMER** :- Accessible to eye and hand with adequate light – Adjacent to entry/exit points.
- PRACTICAL** :- Economy of wiring to detectors and alarm outputs proximity of mains supply. Accessible for installation and maintenance/ repair visits.

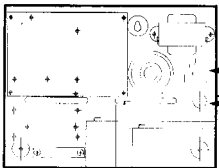
MOUNTING



1. Mark 3 holes
2. Drill/plug top hole
3. Half screw top hole
4. Hang panel/check
5. Remove panel
6. Drill/plug bottom
7. Fix panel loose

Checklist
 Avoid potential buried cables and/or pipeworks when drilling or fixing
 Make sure you can open panel lid fully for removal and/or maintenance.
 Pick a level dry surface away from potential mechanical damage and electrical interference sources.

AC/MAINS CONNECTION

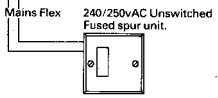


Compliance with current IEE regulations for electrical installation is a mandatory requirement for this appliance.

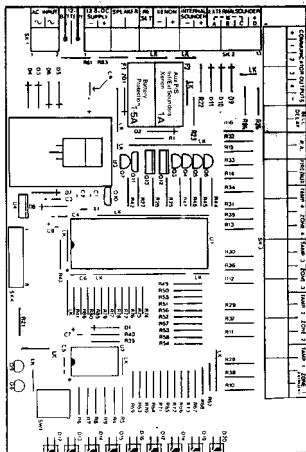
OBSERVE CORRECT POLARITY

- Internal mains block connector.
- 20mm mains cable entry

An EFFECTIVE earth bonding is essential for the correct operation of this product and its associated equipment.

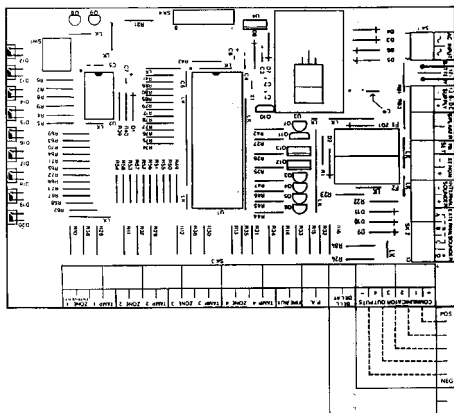


Technical Manual Online - http://www.te



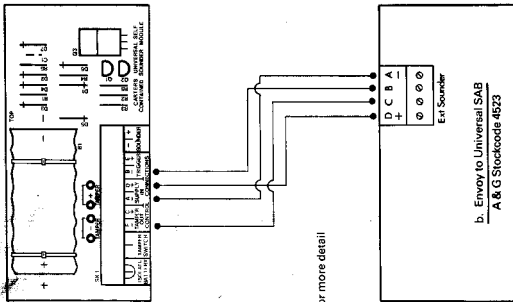
- | | |
|-----------------|--|
| PERSONAL ATTACK | - NC MANUALLY SWITCHED DEVICES |
| FIRE/AUXILIARY | - NC 24 Hr ALTERNATE ALARM SIGNAL FOR SAFETY DETECTORS |
| NEG NC 24 Hr | - TAMPER LOOP (TYPICALLY CABLE MONITOR) |
| POS NC 12 Hr | - ACTIVE LOOP (TYPICALLY ALARM DETECTORS) |
| NEG NC 24 Hr | - TAMPER LOOP (TYPICALLY CABLE MONITOR) |
| POS NC 12 Hr | - ACTIVE LOOP (TYPICALLY ALARM DETECTORS) |
| NEG NC 24 Hr | - TAMPER LOOP (TYPICALLY CABLE MONITOR) |
| POS NC 12 Hr | - ACTIVE LOOP (TYPICALLY ALARM DETECTORS) |
| NEG NC 24 Hr | - TAMPER LOOP (TYPICALLY CABLE MONITOR) |
| POS NC 12 Hr | - ACTIVE LOOP (TYPICALLY ALARM DETECTORS) |

CONNECT OPEN CIRCUIT DETECTORS (PRESSURE MATS ETC.) BETWEEN POS AND NEG LOOPS OF THE ZONE REQUIRED



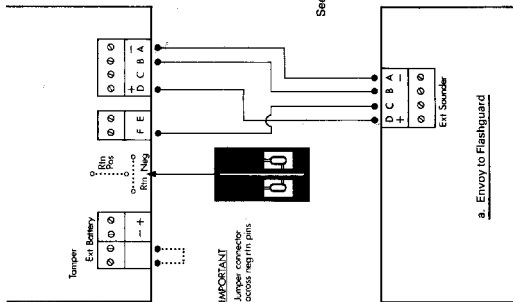
- | | |
|-------------------------|--|
| A.C. INPUT | - FROM TRANSFORMER |
| BATTERY LEADS | - CONNECT TO SEALED LEAD ACID UNIT UP TO 6AH |
| 13.8 DC SUPPLY | - FOR DETECTORS ETC. WITH A NOMINAL 12V REQUIREMENT |
| SPEAKER OUTPUT | - UP TO 2 EXTRA 8 OHM IN PARALLEL |
| LATCH RESET | - + POS VOLTS ON FINAL SET, REF PAGE 4, PARAGRAPH 12 |
| XENON BEACON | - LATCHED OUTPUT 250mA MAX. |
| INTERNAL SOUNDER | - 500mA MAX. (TYPICALLY 250mA) |
| A POWER SUPPLY NEGATIVE | - FIT LINE A-C FOR NON SAB |
| B SOUNDER DRIVE | |
| C NEGATIVE TAMPER LOOP | |
| D PERMANENT POSITIVE | |

- | | |
|------------|--|
| OUTPUT 1 | - LOW FOR FIRE/AUX. ALARM |
| OUTPUT 2 | - LOW FOR PANIC ATTACK ALARM |
| OUTPUT 3 | - LOW FOR INTRUDER ALARM |
| OUTPUT 4 | - LOW FOR PANEL SET (OPEN/CLOSE) |
| BELL DELAY | - POSITIVE LOOP FOR CONNECTION TO DIGITAL COMMUNICATOR |



b. Envoy to Universal SAB
A&G Stockcode 4523

See page 7 for more detail

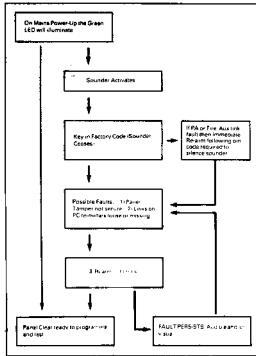


a. Envoy to Flashguard

IMPORTANT

Linker connector across neg rin pins

INSTALLERS PRE-PROGRAMME DETAIL



INITIAL FACTORY SETTINGS

User or Keyholder Level

User Code 0000
Zone Omit none
Zone Chime none
Vol Level 4 (medium)
Mute none

Engineer or Installer Level

Engineer (8)6262
Entry Time 20 secs
Exit Time 20 secs
Reset Time 5 mins
Activations 5
Additional exit routes none
Eng Reset STAGE ONE
 (Reference programme option chart)

Installation Co. _____
Engineers Name _____
Completion date _____

Number _____ Location _____

Remote setting points _____
Remote power points _____
Remote int. sounders _____
Remote ext. sounders _____
Key joint boxes _____

Remote signalling type _____
Central station contact _____
Local police contact _____

Circuit configuration

Dialler Direct line Digicom Other

Entry/Exit	Zone 2	Zone 3	Zone 4	Panic	Aux

Loop resistance chart

1	
2	
3	
4	
5	

Installers comments

Wiring layout

INSTALLERS PROGRAMME OPTION CHART

READ THIS CHART FROM THE START POINT AT BOTTOM OF PAGE!

FINISH	
<p>5 ENG RESET</p> <p>PRESS RELEVANT No. 1, 2, or 3. FOR ENGINEERS MODE REQUIRED.</p> <p>1. NO ENGINEER RESET REQUIRED</p> <p>2. CALL ENG LED LIT, REMOTE SIGNAL LOCKS OUT FOR OPEN/CLOSE AND INTRUDER, SYSTEM WILL RESET TO AUDIBLES ONLY.</p> <p>3. CALL ENG LED LIT, SYSTEM LOCKS OUT TOTALLY, ENG RESET REQUIRED.</p>	
<p>4 ADDITIONAL ENTRY/EXIT ROUTE ZONES</p> <p>PRESS ZONE NUMBER TO CHANGE ENTRY/EXIT ROUTE STATUS, TO FINISH THIS PROGRAMME STAGE PRESS 0</p>	
<p>3 AUTO RESET TIME</p> <p>AUTO RESET TIME = DIGIT x 2 MINS</p> <p>I.E. TO SET 10 MIN A.R.T. PRESS 5</p>	
<p>2 EXIT TIME</p> <p>EXIT TIME = DIGIT x 10 SECS</p> <p>I.E. TO SET 40 SEC ENTRY TIME PRESS 4</p>	
<p>1 ENTRY TIME</p> <p>ENTRY TIME = DIGIT x 10 SECS</p> <p>I.E. TO SET 30 SEC ENTRY TIME PRESS 3</p>	

START PROGRAMME ROUTE

INDICATION SEQUENTIALLY UPWARDS

INPUT ENG CODE 8,8262 (CONSTANT) 3 KEY-

INPUT USER CODE (0000) 2



START BY-PASS ROUTE

- LIT
- NOT LIT
- ✱ FLASHING

TESTING & PROGRAMMING OF ENVOY

Main Supply on – green L.E.D. will illuminate.

Enter factory code 0000 – all remaining L.E.D.'s will illuminate for 2 seconds test period then extinguish. Set L.E.D. will flash to indicate 35 second test period when programming can be loaded.

Engineer Programming

Enter engineer code by pressing 'Eng 8 6262' – L.E.D. 9 (bottom) will flash.

Entry Time

Select time span required then press relevant key 1 to 9 multiplying your key number by 10, i.e., 5 = 50 seconds. This L.E.D. switches on steady, L.E.D. 8 (next up) will flash.

Exit Time

Select time span required then press relevant key 1 to 9 multiplying your key number by 10, i.e., 5 = 50 seconds. This L.E.D. switches on steady, L.E.D. 7 (next up) will flash.

Auto Reset Time

Select 'audible sounding' time then press relevant key 1 to 9 multiplying your key number by 2 minutes, i.e. 5 = 10 minutes. This L.E.D. switches on steady, L.E.D. 6 (next up) will flash.

Additional Entry/Exit Routes

Select zone or zones 2, 3 or 4 and on completion press 0 to move on to next programme. This L.E.D. switches on steady, L.E.D. 5 (next up) will flash. On subsequent re-programming, change the zone status by pressing the relevant zone key once.

Engineer Reset

Select mode required 1, 2 or 3 and press relevant key.

Mode 1 – No engineer reset required.

Mode 2 – Call engineer L.E.D. lit, remote signalling locks out for open/close and intruder. System will reset to audibles only.

Mode 3 – System locks out totally, engineer reset is required, call eng L.E.D. lit.

All L.E.D.'s extinguish – system now programmed.

Factory Pre-Set Values

Entry Time	= 20 seconds
Exit Time	= 20 seconds
Auto Reset Time	= 5 minutes
(Number of activations)	= 5
Additional entry/exit zones	= none
Engineer reset	= mode one

By Pass Route

During engineer programming if the existing value is suitable press 0 to move to next sequence as required.

TESTING & PROGRAMMING OF ENVOY

Mains Supply on – green L.E.D. will illuminate.

Enter factory code 0000 – all remaining L.E.D.'s will illuminate for 2 seconds test period then extinguish. Set L.E.D. will flash to indicate 35 second test period when programming can be loaded.

User Programming

Volume – depress keypad '4 vol' followed by any number from 0–9 to achieve required volume of Envoy exit sounder, higher the number higher the volume. Level of sounder will remain in memory until changed by same procedure.

Chime – Depress keypad '5 chime' followed by either keypad 1, 2, 3 or 4 representing each zone. This procedure must be adopted to chime each zone in turn. Chime key must be depressed between each zone setting.

Chime operates when system is unset with different level of sound for each zone. Duration of chime sound 3 seconds.

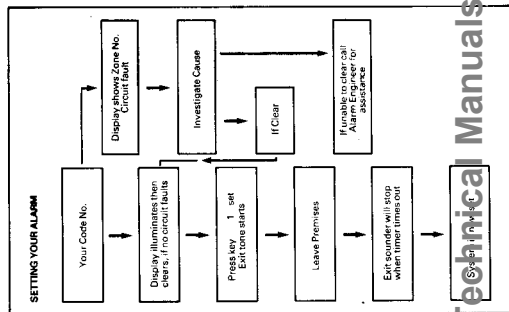
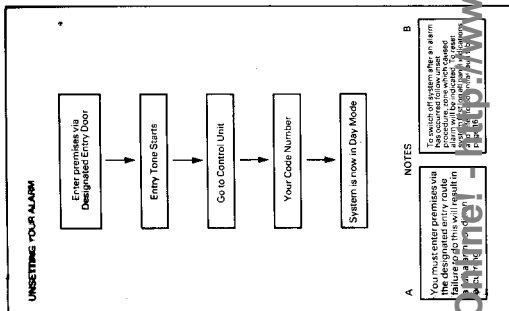
To remove chime follow same procedure as chime programme.

Zone Omit – depress keypad '2 omit' followed by either keypad 1, 2, 3 or 4 representing each zone. This procedure must be adopted to omit each zone in turn, omitting of zones only operates for one setting operation. When system is unset zone omit is cancelled. L.E.D. of each zone omitted will flash during test period.

Code change – depress keypad, '7 code' followed by any combination of 4 numbers. New code will remain in memory until changed by same procedure.

If error is made during code entry wait ten seconds, panel reverts to previous code. Try again.

AT A GLANCE' SETTING/UNSETTING KEY TO SUPPORT YOUR INSTALLERS DEMO & INSTRUCTION AT SYSTEM HANDOVER



TONE LEGEND

COMFORT TONE FIRST 3 DIGITS & CONFIRMATION TONE LAST DIGIT

CONFIRMATION TONE

COMFORT TONE FIRST 3 DIGITS & CONFIRMATION TONE ON LAST DIGIT

CONFIRMATION TONE

CONFIRMATION TONE

CONFIRMATION TONE
1) TWITTER
2) HIGH PULSE
3) TWO TONE ALARM
4) DEEP PULSE

CONFIRMATION TONE

CONFIRMATION TONE

CONFIRMATION TONE IN MUTE

KEY IN THE INITIAL SETTING CODE (0000)
YOU NOW HAVE 35 SECONDS TO PROGRAMME AND THIS PERIOD IS INDICATED BY THE FLASHING 'SET' LED

PRESS



SELECT PERSONAL USER CODE BY PRESSING ANY 4 DIGITS FROM: 0,1,2,3,4,5,6,7,8,9. TIME ALLOWED 10 SECONDS
A&G#SUGGEST THAT YOUR SELECTION OF CODE DOES NOT INCLUDE '7' AS THE LAST DIGIT

PRESS



PRESS ZONE KEY FROM 1234 TO BE OMITTED IF MORE THAN ONE ZONE REPEAT SEQUENCE IE - PRESS OMIT AND THEN RELEVANT ZONE TO CLEAR PRESS ZONE NOT REQUIRED TO BE OMIT & IT RETURNS TO ACTIVE

PRESS



EACH ZONE HAS A MODIFIED CHIME SIGNAL AFTER PRESSING CHIME KEY SELECT CHIME ZONE OR ZONES SEQUENTIALLY

PRESS



SOFT 0 1 2 3 4 5 6 7 8 9 LOUD
SELECT VOLUME REQUIRED FOR SITE CONDITIONS

PRESS



MUTES ALL INT SPEAKER SOUNDS AND RETURNS TO PRESET LEVEL ON SYSTEM SWITCH OFF

L.E.D. LEGEND

ALL LED'S ILLUMINATE & THEN EXTINGUISH EXCEPT SET

NONE

L.E.D. ON THE OMITTED ZONE WILL INDICATE

NONE

NONE

Visual Legend

Green L.E.D. Lit
Amber L.E.D. Flashes

Green L.E.D. Lit
Amber L.E.D. Lit
All L.E.D.s illuminate and extinguish

Historical data may be available:-
First up latch, etc.

Green L.E.D. Lit
Relevant zone lit & 24HR SCB

24HR SCB Lit

Panic Attack/
Fire (Discreet)

Panic Attack/
Fire Lit

Use the following operation

Enter Pin Code

Remaining in Residence

If a 'Discreet' setting is required, ie:- residents already in asleep then mute should be selected to cut down panel speaker tone to a minimum. Leave panel via your designated route passing only through zones which are exit or were omitted during your programme selection. The preset time will expire and the system set.

PRESS



Leaving the Premises

Leave by the shortest convenient route within the preset exit time and on the closing the 'Final exit door' the system will simply 'Time out' and set.

RE-ENTRY

Remaining in residence

Follow defined entry path and swiftly enter keycode, make note of panel LEDs if appropriate.

Leaving the premises

Open final exit door or enter exit route as defined, approach panel swiftly and enter keycode. Make note of any historical data the panel LEDs offer.

Re-arm will be required if any fault has been registered

PANEL NOW OFF

Tone Legend

Two-Tone Pulse

Urgent two tone pulse
Custom tone on 1234 and confirmation tone on final digit

Alarm Signal Stage 1

Full alarm audible and reliable if required

Full alarm and reliable if required

NB: Bells will pulsate

NB: THERE IS NO REQ FOR USER TO UTILIZE ALL OF THESE FACILITIES NOR NEED HE USE THE SEQUENCE GIVEN HERE, AS AN EXAMPLE

<http://www.te.com/AlarmOnline!>

USER OR KEYHOLDER PROCEDURE ON ENTRY FOLLOWING AN ALARM ACTUATION

1. Enter premises as normal and key in your personal code to silence the audible alarms.
2. Note the panel information, ie. which LED's are illuminated, which are flashing, is the power on, etc.
3. Press re-arm to cancel re-occurrence of the audible alarms after 30 secs. You may have to omit any zone which has a 24HR fault and re-arm again.
4. On the basis of your panel diagnosis investigate the probable cause of the actuation, i.e. door blown open, broken window, mains failure, etc etc. If the cause is known to you at this point and by simple rectification you are able to re-secure without fear of re-occurring faults then re-set the alarm and leave reporting your full finding to the installing company when appropriate.
5. If you cannot diagnose or locate the fault or your system is programmed to 'Lock-out' under alarm-actuation you will find the red call engineer LED illuminated and this is what you should do, relating all the facts and conditions to the engineer or his answering service.

Refer to RE-arm Table Below.

NOTES FOR USER GUIDANCE

When leaving the property having set the panel you may inadvertently wander from the designated exit route into a protected area this condition is described as:-

EXIT DEVIATION

and will result in the speaker alarm tone and internal audibles (if fitted) to sound for the duration of any deviation.

On entering a property should you mistakenly enter a protected zone on your way to the panel you will have made an:-

ENTRY DEVIATION

and this will result in the speaker alarm tone and internal audibles (if fitted) will sound informing you that you have approximately 4 seconds to key your code in before full actuation.

FAULT		SYSTEM RESPONSE				USER ACTION			NOTES	
SYSTEM SET	SYSTEM UNSET	SPEAKER	INT. SOUND	EXT. SOUND	BEACON	INSERT PIN CODE	SOUNDERS LED SILENCED	LED INDICATION		PRESS RE-ARM
	The System has been incorrectly set	■	■	□	■	■	■	5/24hrs 5/21 flashing at 10 sec intervals	<input type="checkbox"/> Twice within 1 second <input type="checkbox"/> Once more to reset	■ - YES □ - NO
Keypad Fault more than 3 bad code attempts	Keypad Fault more than 3 bad code attempts	■	■	□	■	■	■	5/24hrs 8/21 flashing at 10 sec intervals (No toggle)	<input type="checkbox"/> Twice within one second <input type="checkbox"/> once more to reset	
Zone Fault	Zone tamper fault	■	■	■	■	■	■	Return zone visible 5/24hrs 8/21 flashing at 10 sec intervals	<input type="checkbox"/>	The cause of the alarm if present must be removed before (re-set) can be achieved as per this table
P.A. →		■	■	■	■	■	□	4 P.A. / Pin Steady	<input type="checkbox"/> Twice within 1 second	
SCB →		■	■	■	■	■	■	52/SCB Flashing	<input type="checkbox"/>	
Fire →		■	■	■	■	■	■	4 P.A./Fire Flashing	<input type="checkbox"/>	
		←	→				■	EXCITE speaker & beacons	<input type="checkbox"/>	