**Summary of ALL Key-Pad entries**

**CHANGING THE SPECIFIC KEYPAD OPTIONS (ONLY AVAILABLE THROUGH THE INSTALLER PASSWORD):**

- 1000 #--# 1 = ENABLE LOCAL KEYPAD
- 1000 #--# 2 = SET LOCAL BEEPER FUNCTIONS ON KB
- 1000 #--# 3 = CLEAR EFPROM ON LOCAL KB
- 1000 #--# 4 = CHANGE KEYPAD SYSTEM (D)

**PROGRAMMING THE SPECIFIC KEYPAD OPTIONS (ONLY AVAILABLE THROUGH THE INSTALLER PASSWORD):**

- 1000 # 0 1 = SET OPTIONS 1 OF THE SYSTEM
- 1000 # 0 2 = SET OPTIONS 2 OF THE SYSTEM
- 1000 # 0 3 = SPARE
- 1000 # 0 4 = SET DELAY FOR EACH ZONE
- 1000 # 0 5 = SET SIREN ACTIVATION
- 1000 # 0 6 = SET OPEN / CLOSE REPORTING
- 1000 # 0 7 = SET ALM / RESTORE REPORTING
- 1000 # 0 8 = MODE REGISTER
- 1000 # 0 9 = ERASE EFPROM IN THE CONTOLUNIT
- 1000 # 0 A = SET LEVEL A
- 1000 # 0 B = SET LEVEL B
- 1000 # 0 C = SET LEVEL C
- 1000 # 0 D = SET LEVEL D

**NOTES:**

- 5555 # A = ARM LEVEL A (USER 5)
- 4444 # A = ARM LEVEL D (USER 4)
- 2222 # A = ARM LEVEL B (USER 2)

**CHANGING THE OPTION REGISTERS (ONLY THROUGH THE INSTALLER PASSWORD):**

- 1000 #--># D = SET KEYPAD NUMBER
- 1000 #--># 9 = CLEAR EEPROM ON LOCAL KB

**OTHER KEY OPERATIONS AVAILABLE TO THE USER:**

- 4444 # # = DISARM SYSTEM
- 3333 # # = DISARM SYSTEM
- 2222 # # = DISARM SYSTEM
- 1111 # # = DISARM SYSTEM

**OTHER KEY OPERATIONS AVAILABLE TO THE USER:**

- [7&9] --> [7&9] = TURN LIGHTS ON / OFF
- [*)&# = SEND PANIC SIGNAL

**How Users 2,3,4 & 5 CAN CHANGE THEIR OWN PASSWORDS:**

- 1000 # 1 2 * = DISPLAY TEL NO 2 (12 DIGITS)

**How The Installer Can Change Passwords:**

- 1000 # 1 1 * = DISPLAY TEL NO 1 (12 DIGITS)

**Choosing Arm / Warn Levels In Multi-User Mode:**

- 1111 # [Z] A = WARN SET BY USER 1
- 3333 # [Z] A = WARN SET BY USER 3
- 4444 # [Z] A = WARN SET BY USER 4

**Choosing Arm / Warn Levels And Disarming In Normal Mode:**

- 1111 # [Z] B = WARN SET BY USER 2
- 3333 # [Z] B = WARN SET BY USER 3
- 4444 # [Z] B = WARN SET BY USER 4

**Dual Key Operations Available To The User:**

- [1&3] --> [1&3] = SEND PANIC SIGNAL
- [7&8] --> [7&8] = TURN LIGHTS ON / OFF

**Notes:**

- A --> A = Press and hold the A key until it beeps
- [Ty] --> [Ty] = Press and hold the "*" and the A keys until it beeps
- [Ty] = Means: Any COMBINATIONS OF numbers 1,2,3,4,5,6,7 or 8 keys
- [Ty,] = Means: Any A, B, C, D key or any combination of 1,2,3,4,5,6,7 or 8 keys
- * Ty = Denotes the value when the correct password has been entered
- [7&8] = Means: Press BOTH KEYS (7&8) at the same time

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SUPER-TRACER CONNECTIONS

WIRE-LESS P.I.R
Each wireless detector must be identified within the system.
This is done using either 4 jumpers (old model) or programming buttons (new model)
(see instructions supplied with the detector).

KEY SWITCH CONNECTIONS

WIRED BUTTON INPUT

TAMPER INPUT

NEW!

OLD

Figure 2

2K7 ohm RESISTOR

IN SERIES
The "SUPER-TRACER" is a microprocessor based ALARM PANEL designed to perform all the functions associated with the monitoring of alarm conditions, in both wired and wireless environment, and subsequent transmission by either Radio or Telephone Communicator to a REMOTE MONITORING CONTROL ROOM or to a PRIVATE TELEPHONE.

The "SUPER-TRACER" not only conforms with SAIDSA specifications but offers many more features which are not available in traditional alarm panels.

The "SUPER-TRACER" is capable of reporting the condition of all 8 zones in one transmission giving the full current status of the alarm panel.

These features make the "SUPER-TRACER" a versatile, efficient and most innovative ALARM CONTROL PANEL.

Supports up to 4 keypads
- 8 zones BOTH WIRED and /or WIRELESS.
- Arm/disarm and warning selection via Keypad, Key-Switch or Remote Control
- Normal or multi-user operation ( 4 partitions).
- Remember all selections during power failures and will resume from the last status.
- Supervised alarm circuits/zones with end of line resistors (2k7). Programmable "entry / exit delay".
- Programmable siren activation on individual zones.
- AUTOMATIC ACTIVATION of security lights on alarm or warning conditions.
- RADIO (VHF, UHF) or TELEPHONE communicator interface.
- Built-in battery 3 A charger for Stand-by 6.5 A/h battery (72 hrs autonomy on average installation).
- Buzzer output for auxiliary signals (arm, disarm, battery-low etc...).
- EEPROM memory for retention of both options and code selections during "power-down".
- Optional wired panic button.
- Programmable silent PANIC alarm.
- Programmable reporting of battery low condition in each wireless sensor.
- Programmable reporting of system mains failure, mains restored, system battery low and restoral.
- Programmable reporting of arm and disarm with user identification.
- Programmable Auto arming with optional entry-exit feature (hands free). Tamper circuit for sensors
- Subscriber ID code and options fully programmable by the installer.

- TEST transmission to control room from the remote control or keypad.
- Programmable "check-in" transmission from 1 to 250 hours.
- Four preset active levels "A, B, C, or D".
- Diagnostic for testing wireless devices.
- Special option for "Follow-me" telephone operation.
- Easy programming and display of current zone and settings.
- Programmable alarm reporting on individual zones.
- Each keypad can be switched off individually.
- Additional system-armed / system-disarmed/ LED output.
- Self Learning function for the Remote Control code and Wireless Detectors.
- Supports both Old and New report protocols and wireless codes.
- Quick setting of the four preset levels: "A, B, C or D" to ARM.
- Quick setting of the four preset levels: "A, B, C or D" to WARN.
- Keypad system security identification feature.
- Door code.
- Tamper on Wireless Detectors.
- Battery low on wireless detectors
- Wireless detectors Supervision
- Keypad wrong-code lockout
- 255 Event logging in non volatile memory.
- Zone "swinger" to automatically disable false triggering zones
- 8 sector perimeter expander interface (SPI)

SUPER - TRACER
Telephone & Radio Alarm Control Panel
January 2009

GENERAL FEATURES:

The "SUPER-TRACER" is a microprocessor based ALARM PANEL designed to perform all the functions associated with the monitoring of alarm conditions, in both wired and wireless environment, and subsequent transmission by either Radio or Telephone Communicator to a REMOTE MONITORING CONTROL ROOM or to a PRIVATE TELEPHONE.

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- Wireless detectors Supervision
- Keypad wrong-code lockout
- 255 Event logging in non volatile memory.
- Zone "swinger" to automatically disable false triggering zones
- 8 sector perimeter expander interface (SPI)
GENERAL INFORMATION

The "SUPER-TRACER" is capable of monitoring BOTH WIRED and WIRE-LESS detector circuits at the same time. A REMOTE PANIC BUTTON option is built in as a standard feature.

The "SUPER-TRACER" will send an alarm/report whenever the following inputs are triggered:

- Any of the 8 wired active inputs.
- Any of the 8 wireless active inputs.
- Remote panic button.
- Supervisory signals such as:
  - low battery in the wireless sensors.
  - arm / disarm.
  - low battery in the system.
  - mains failure.
  - battery restored in system.
  - mains restored.
  - test transmission.
  - tamper & password change.
  - panic button.

For complete application flexibility the eight wired inputs may be programmed to send an alarm whenever one of the following occurs:

- When the external circuit is opened (Normally Closed circuit).
- When the external circuit is closed (Normally Open circuit).
- Both when the external circuit is Opened or Closed.

(In this case it is possible to program any of the circuits as an "alarm circuit" or a "door entry monitoring circuit").

For example: You may require that the particular circuit calls the control room both when an alarm occurs and when it is restored, or that a particular circuit calls the control room both when a door is locked or unlocked.

The eight wired inputs work parallel to the wired inputs and therefore share all the available optional features such as:

- individual siren activation selection
- individual "ENTRY/EXIT DELAY" selection
- individual "warning only" selection
- individual "24 hrs" ready activation.

A great feature of the "SUPER-TRACER" is the fact that it is fully programmable to suit every possible requirement. You can for instance define 4 levels each containing a set of zones which you will most likely select in everyday operation. You do not have to remember which set you normally arm or set to warning mode.

The "SUPER-TRACER" will memorize the four patterns for you and so when arming the system, automatically step through these preset patterns allowing you to stop at the one you desire. These patterns may be changed at will by the installer or by the customer using the two buttons on the hand-held remote control.

These preset levels can be "Quick selected". See "long-key" on table of key entries.

ALL COMMANDS and INDICATIONS are performed on up to 4 wall mounted Keypads.

The Keypad display the following information:

- the wired/wireless sensor which caused the alarm.
- the perimeter beam which was activated.
- which circuit is set to 24hrs, armed or on warning.
- mains failure has occurred.
- system has triggered and the signal was sent to control room.

The GREEN numeric display shows the Sector which was activated on the perimeter alert system (SPI).

The RED numeric display shows the type of transmission which was sent to the control room e.g.:-

- Numbers 1 to 8 indicating the alarm Zone which was triggered.
- The letter "p" indicating panic button activation.
- The letter "t" indicating test transmission.
- The letter "b" * indicating battery low in one of the wireless sensors.
- The letter "a" * indicating that the system had a reset.
- The letter "h" * indicating a tamper condition is present.
- The letter "u" indicating the system is not programmed yet.
- The letter "j" indicating that the ID of the keypad is not the same as the ID of the TRACER.
- The letter "j" indicates wireless Radio Frequency blocking.

INSTALLER (4):

KEYPAD OPTION REGISTERS

ENTER THE INSTALLER CODE FOLLOWED BY A LONG "#" KEY AND THE NUMBER OF THE REGISTER YOU WANT TO MODIFY.

NOTE: THE "#" MUST BE HELD DOWN UNTIL YOU HEAR A LONG BEEP.

THE CURRENT CONTENT OF THE SELECTED REGISTER WILL BE DISPLAYED. USE BUTTONS 9 TO 0 TO CHANGE THE CORRESPONDING BIT TO OBTAIN THE DESIRED SELECTION. PRESS "#" TO EXIT.

REGISTER NAME: INSTALLER CODE: REG. NO.

<table>
<thead>
<tr>
<th>SET INDIVIDUAL key pad I.D. NUMBER</th>
<th>INSTALLER CODE</th>
<th>#</th>
<th>REG. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE SUPER TRACER CAN ACCEPT UP TO 4 KEYPADS. FOR SPECIAL APPLICATIONS EACH KEYPAD CAN BE PROGRAMMED TO HAVE ITS OWN I.D. CODE. KEYPADS WITH THE SAME I.D. WILL OPERATE SIMILARLY.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENABLE LOCAL BLEEPER FUNCTIONS</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
<tr>
<td>ENABLE KEYPADS</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
<tr>
<td>CHANGE INSTALLER CODE</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
<tr>
<td>CHANGE CODE OF USER 1 to 10(A)</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
<tr>
<td>DEFAULTING THE SYSTEM (ERASING MEMORIES)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ERASE KEYBOARD MEMORY</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
<tr>
<td>ERASE MEMORY IN CONTROL UNIT</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
<tr>
<td>ERASE BOTH CONTROL-UNIT AND KEYBOARD MEMORIES</td>
<td>INSTALLER CODE</td>
<td>#</td>
<td>REG. NO.</td>
</tr>
</tbody>
</table>
**INSTALLER (3): S.P.I. (SECTIONAL PERIMETER INTRUSION) OPTION REGISTERS**

An extra 8 perimeter beams may be connected to the new SUPER-Tracer-Combo. (See SPI installation instructions)

Or

The unit will monitor these perimeter beams and indicate which beam was triggered. The activation of the beams will either sound locally or report the activation to the control room using exclusively zone 8.

The perimeter SECTORS are set up, tested and activated by following this procedure:

1- Connect, align and program each beam
2- Manually or automatically define the number of sectors / beams installed as follows:

### DEFINE INSTALLED SECTORS

<table>
<thead>
<tr>
<th>Sector</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>0</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

E.g. Only beam 1, 2, 3, 4, 5 and 6 are installed.

### INSTALLER CODE

Wait for the display to show the sectors found then enter # to store the result or any other key to exit.

To test the perimeter connections do the following:

1- Enable/activate all (6 in this case) available beams installed with:

```
[ 1 1 1 1 # 0 ]
```

Four preset perimeter selections may be pre-programmed to coincide with the arm/warn levels A, B, C & D. (This is done as shown below)

If option 6 of register 01 (paged) is set, a selection will be active when the corresponding arm/warn level is selected (e.g. You can have zones 1&2 (level "A") on armed and perimeter sectors 1, 2 & 3 on warning).

### DEFINE INSTALLED SECTORS

<table>
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<tr>
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To test the perimeter connections do the following:

1- Enable/activate all (6 in this case) available beams installed with:

```
[ 1 1 1 1 # 0 ]
```

Four preset perimeter selections may be pre-programmed to coincide with the arm/warn levels A, B, C & D.
4- AUTO-ARMING
When auto-arming is selected (programmable for 2 hours or 15 minutes by installer) the system will arm itself if no movement or any other activations have been detected within the selected time period.

A second ([Installer programmable] option is to enable the entry / exit zone (zone 1 - Wired only). When the last activation was detected on zone 1 the system will arm itself at Level ‘D’ after the expiry time. In the event where any of the other zones was the last to be triggered the system will arm at Level ‘A’ after the time period expired.

This function is useful when you forget to arm your alarm system. The system will arm itself 15 min /2 hours after you have left the house or went to bed. The Auto arming option is set in option register ‘0B’ bit 8.

The exit delay is always calculated to be double the entry delay

5- DISABLING THE KEY PADS
Each key pad can be disabled individually. To disable temporarily a key pad, enter the user code. Press # for approximately 4 seconds followed by the D key. To re-enable the keypad repeat the operation.

REMEMBER THAT THE SECOND TIME THERE IS NO INDICATION FROM THE BUZZER ON THE KEYPAD

6- TAMPER ( WIRELESS SENSORS ONLY )
Circuit that monitors illegal violation of alarm devices when the system is not armed. When it’s triggered it will send a tamper condition to the control room and the “WL TBL” and “TRGG” teds will be illuminated on the keypad with buzzer sounding. To cancel the above, enter the user code followed by #. NOTE: USE " " FOR A 3 SECONDS PAUSE

7- WIRELESS ZONE SUPERVISION
This feature enables the SUPER-TRACER to detect when a wireless passive is faulty ( NOT REPORTING).
The user can program which wireless zone the SUPER-TRACER must monitor. Please note that the wireless passive must be enabled for supervision - pages 8 & 9 and see also the wireless detector instructions.

8- EVENT MEMORY LOG FACILITY
The SUPER-Tracer-Comto is capable of storing the last 255 events in memory. The installer can view these events in case of the user not reporting to a control room. The log facility will display the day after the last event occurred.

9- WIRELESS RF BLOCKING
SUPER-TRACER will report a “System Tamper” if Radio Frequency blocking was detected on the system lasting longer than 30 seconds. This is to prevent intruders blocking the RF reception.

10- SPI PERIMETER BEAM
An extra 8 perimeter zones can be installed on the SUPER-Tracer-Comto. The unit will detect an activation on the perimeter beam and sound an audible alarm. This condition will not be reported to control room.

Refer to the instruction of the SPI beam for installation and programming instructions.

11- RESPONSE / GUARD SUPERVISION
This features allows the control room to supervise all activities undertaken by the response officer.

For this purpose the SUPER-TRACER uses a third remote control code.

On this special Officer remote control, button A will be the Panic button and button B will be “Guard Responded”. This feature is only active for 30 minutes after an alarm was triggered. This Response code can only be stored by the SELF-LEARNING method and not MANUALLY

13- SWINGER ZONE DISABLE
If the same zone triggers more than 5 times during the same “armed” period the Super-Tracer automatically disables that zone until the next arming or until 10 hours have expired since the last alarm triggered by the “swinger” zone. See page 8

14- MAINS FAILURE REPORTING WITH NEW LOAD SHEDDING FEATURE
The Super-Tracer will report mains failstore only after 4 hours of constant mains fail. Should the mains restore and fail again before the 4 hours, the timer will start again. See page 8
### INSTALLER (1)

#### OPTIONS REGISTER NO. 1

<table>
<thead>
<tr>
<th>Option</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>SIREN WITH PANIC BUTTON</td>
<td>Off = Silent Panic Button</td>
</tr>
<tr>
<td>ON</td>
<td>MULTIGUSER OPERATION</td>
<td>Off = Normal Operation</td>
</tr>
<tr>
<td>ON</td>
<td>AUX. SIGNALS ON BEEPER &amp; SIREN</td>
<td>Off = AUX. Signals on Beep Only</td>
</tr>
<tr>
<td>ON</td>
<td>SIREN AND LIGHTS (WITH AN ALARM)</td>
<td>Off = Siren Only</td>
</tr>
<tr>
<td>ON</td>
<td>WIRELESS RF BLOCKING ENABLED</td>
<td>Off = Wireless RF Blocking Disabled</td>
</tr>
<tr>
<td>ON</td>
<td>PERIMETER MASK LINKED TO ARM LEVEL</td>
<td>Off = Perimeter and Arm Masks Not Linked</td>
</tr>
<tr>
<td>ON</td>
<td>TRANSMIT CONTACT / ID CODE</td>
<td>Off = Transmit ID Code</td>
</tr>
<tr>
<td>OFF</td>
<td>REPEATER FUNCTION ENABLED</td>
<td>Off = Repeat Function Disabled</td>
</tr>
</tbody>
</table>

**Note:**
- The "TIME" DELAY is automatically set to double the "ENTRY" DELAY
- A CHECK-IN INTERVAL VALUE of "0" will automatically disable the option (no checking-in transmission).

### OPTIONS REGISTER NO. 2

<table>
<thead>
<tr>
<th>Option</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>SEND ALARM VIA TELEPHONE</td>
<td>Off = No Radio</td>
</tr>
<tr>
<td>ON</td>
<td>REPORT &quot;BATTERY LOW&quot; IN SENSORS</td>
<td>Off = No Report</td>
</tr>
<tr>
<td>ON</td>
<td>REPORT SYSTEM BATTERY LOW</td>
<td>Off = No Report</td>
</tr>
<tr>
<td>OFF</td>
<td>REPORT SYSTEM MALFUNCTION</td>
<td>Off = Report Load Shedding</td>
</tr>
<tr>
<td>ON</td>
<td>USE USING DTMF</td>
<td>Off = Send Using DTMF</td>
</tr>
<tr>
<td>OFF</td>
<td>TONE DIALING</td>
<td>Off = Pulse Dialing</td>
</tr>
</tbody>
</table>

**Note:**
- The combined current 3 relays may supply is limited by a 2.5Amp fuse.

### OPTIONS (MODE) REGISTER NO. 3

<table>
<thead>
<tr>
<th>Option</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>USE KS INPUT WITH A KEY SWITCH</td>
<td>Off = Use KS Input as Wired Panic</td>
</tr>
<tr>
<td>ON</td>
<td>SNIPER OPERATION</td>
<td>Off = Tracker Operation</td>
</tr>
<tr>
<td>ON</td>
<td>ARM/DISARM CONFIRMATION(REALIGNED)</td>
<td>Off = No Confirmation(REALIGNED)</td>
</tr>
<tr>
<td>ON</td>
<td>REPORT WIRELESS SUPERVISION</td>
<td>Off = No Report</td>
</tr>
<tr>
<td>ON</td>
<td>REPORT SPIN ON ZONE 8</td>
<td>Off = Auto Arm Time - 50 MINUTES</td>
</tr>
<tr>
<td>ON</td>
<td>AUTO ARM ENABLED</td>
<td>Off = Auto Arm - Disabled</td>
</tr>
</tbody>
</table>

**Note:**
- For use in shared frequencies, "STANDARD" is used in non shared frequencies.
- NB: "W-NET" is used in shared frequencies.

### PROGRAMMING THE REPEATER NUMBER AND FUNCTIONS

#### OPTIONS REGISTER NO. 1

Set the "NEXT" Repeater Number to: **1**

Display the "NEXT" Repeater Number: **1**

### OPTIONS REGISTER NO. 2

#### OPTIONS (MODE) REGISTER NO. 3

#### OPTIONS REGISTER NO. 4

### CONNECTIONS

#### 1- ALARM CIRCUIT CONNECTIONS:

- There are 8 inputs available on the TRACER - COMBO (A8 TO A15).
- For protection, a 2.7KOhm resistor is required at the end of each zone (last detector). Any zone will trigger if it is either shorted to Ground or +12V. The inputs have both lightning and short circuit protection.
- Power to the detectors is taken from B15, B16, B17 (POS.) and B12, B13, B14 (NEG.).

#### 2- SIREN:
- 12 Volts DC - 3Amp is available between connectors [A1] (neg) & [A2] (pos) to operate the siren.

#### 3- BUZZER:
- 12 Volts DC - 3Amp is available between [A3] (neg) & [A4] (pos) to operate an optional buzzer.

#### 4- EXTERNAL LIGHTS:
- 12 Volts DC is available between [A5] (neg) & [A6] (pos) to operate an external RELAY with suitable contact rating for light circuits. Option 4 of register 1 will allow for lights to switch on with an alarm or a warning and switch off 4 minutes later. The security lights can also be activated using the REMOTE CONTROL by pressing buttons 26.3.
- The lights will switch off 4 minutes after the last activation.

#### 5- AC - SUPPLY:
- A 220/16 Volts AC, 800 mA (3 amps when using a radio transmitter) TRANSFORMER supplies power to the charger and panel on terminals [B3] and [B4]. This input is protected against lightning, 15W max.

#### 6- KEYPAD:
- 4 wires are required to connect remote display units. They are:
  - [B7] (A) Transmitted data line, [B5] (B) Received data line, [B8] (Negative supply) and [B9] (Positive 12v supply)

#### 7- BATTERY CONNECTIONS:
- A 6.5 Amp/hr, 12V stand-by battery must be connected between B10 (NEGATIVE) and B11 (POSITIVE). Accidental reversal of the battery connections is protected by a crowbar polarity protection device which will blow the safety fuse. It may therefore be necessary to change the BATTERY and OUTPUT fuses after connecting the battery incorrectly. The unit is NOT GUARANTEED for damages caused by reverse/incorrect connections.

#### 8- TAMPER INPUT (TP):
- The Tamper input is set to trigger whenever a positive supply is removed from this contact. (TP [B1]) When triggered a Tamper condition is sent to the Control room and a 2 second audible sound is heard on the buzzer. The input may be triggered with either a Normally-Open or a Normally-Closed as indicated on figure 2 on page 13.

#### KEY-SWITCH / PANIC INPUT [KS]:
- The [KS] input is programmable for Arming/Disarming or Panic.
- To Arm / Disarm with a Key switch, use the normally open contacts of a momentary key switch.
- Register / bit 1 (see programming section) must be programmed ON for key-switch operation (OFF for panic).
- The normally open contact of the key-switch is connected to 12v Positive +"*" [B9] and "K" [B2].

#### 10- S.P.I. PERIMETER BEAM CONNECTIONS:
- The 4 wires to the Master unit of the SPI perimeter alarm system can be connected to the same inputs as the remote display unit. [B7] (A) for transmitted data line [B5] (B) for the received data line. (B9) for negative supply (B9) for positive 12v DC supply.

Special components have been introduced to protect the key pad and detector power supply from short circuits. The characteristic of these devices is such that on excessive current they will heat up and TEMPROARILY SHUT DOWN. Only once the short has been removed will they slowly recover to their initial value.

The maximum current to keypads and sensors circuits is limited to 700mA for each.
The standard unit supplied has only two buttons: 1 = Panic, 2 = Arm/Disarm, panic, test (for remote controls). The functions are determined by a 4-bit configuration. See Table 1 and 2.

**FUNCTION selection of the DETECTORS CODE**

<table>
<thead>
<tr>
<th>BIT SETTING</th>
<th>FUNCTION WHEN ACTIVATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 3 2 1</td>
<td></td>
</tr>
<tr>
<td>0 0 0 0</td>
<td>WARNING (1 SEC ON BLEEPER)</td>
</tr>
<tr>
<td>0 0 0 1</td>
<td>PAGE TO TEXT</td>
</tr>
<tr>
<td>0 0 1 1</td>
<td>NOT USED</td>
</tr>
<tr>
<td>0 1 0 0</td>
<td>KET Button</td>
</tr>
<tr>
<td>0 1 0 1</td>
<td>ARM/ACTIVATE</td>
</tr>
<tr>
<td>0 1 1 0</td>
<td>EXTERNAL LIGHT ACTIVATION</td>
</tr>
<tr>
<td>0 1 1 1</td>
<td>NOT USED</td>
</tr>
</tbody>
</table>

To program the sensors and detectors see the instructions supplied with each device.

**FUNCTION selection of the REMOTE CONTROL CODE**

<table>
<thead>
<tr>
<th>BRIDGE NO</th>
<th>FUNCTION WHEN ACTIVATED</th>
<th>APPLICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 0 0 0</td>
<td>WARNING (1 SEC ON BLEEPER)</td>
<td>DOOR BELL/POOL WARNING</td>
</tr>
<tr>
<td>0 0 0 1</td>
<td>PANIC</td>
<td>EMERGENCY MEDICAL ASSISTANCE</td>
</tr>
<tr>
<td>0 0 1 0</td>
<td>ARM/ACTIVATE</td>
<td>ARMED/ARMED USER 1</td>
</tr>
<tr>
<td>0 0 1 1</td>
<td>ARMED/ARMED USER 1</td>
<td>TURN SYSTEM ON OR OFF</td>
</tr>
<tr>
<td>0 1 0 0</td>
<td>TEST</td>
<td>CHECK IF THE SYSTEM IS WORKING</td>
</tr>
<tr>
<td>0 1 0 1</td>
<td>ARMED/ARMED USER 2</td>
<td>ARMED/ARMED BELL/POOL</td>
</tr>
<tr>
<td>0 1 1 0</td>
<td>DISARM ONLY</td>
<td>DISARM ONLY</td>
</tr>
<tr>
<td>0 1 1 1</td>
<td>ARMED/ARMED User Activation</td>
<td>SECURITY LOCK/MANUAL ACTIVATION</td>
</tr>
<tr>
<td>1 0 0 0</td>
<td>NOT USED</td>
<td>ARMED/ARMED Remote Control USER 1</td>
</tr>
<tr>
<td>1 0 0 1</td>
<td>ARMED/ARMED Remote Control USER 2</td>
<td></td>
</tr>
<tr>
<td>1 0 1 0</td>
<td>ARMED/ARMED Remote Control USER 3</td>
<td></td>
</tr>
<tr>
<td>1 0 1 1</td>
<td>ARMED/ARMED Remote Control USER 4</td>
<td></td>
</tr>
<tr>
<td>1 1 0 0</td>
<td>ARMED/ARMED Remote Control USER 5</td>
<td></td>
</tr>
<tr>
<td>1 1 0 1</td>
<td>ARMED/ARMED Remote Control USER 6</td>
<td></td>
</tr>
<tr>
<td>1 1 1 0</td>
<td>ARMED/ARMED Remote Control USER 7</td>
<td></td>
</tr>
<tr>
<td>1 1 1 1</td>
<td>ARMED/ARMED Remote Control USER 8</td>
<td></td>
</tr>
</tbody>
</table>

Remote Control may have up to four buttons, and each button may be programmed to carry out a specific task. The standard unit supplied has only two buttons: 1 = Panic, 2 = Arm/Disarm.