

# Summary of ALL Key-Pad entries

## PROGRAMMING THE SPECIFIC KEYPAD OPTIONS ( ONLY AVAILABLE THROUGH THE INSTALLER PASSWORD

1000 #-># 1 = ENABLE LOCAL KEYPAD  
1000 #-># 3 = SET LOCAL BEEPER FUNCTIONS ON KB  
1000 #-># 4 = CHANGE KEYPAD SYSTEM ID  
1000 #-># 9 = CLEAR EEPROM ON LOCAL KB  
1000 #-># D = SET KEYPAD NUMBER

## PROGRAMMING THE OPTION REGISTERS (ONLY THROUGH TO 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 DET. 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 EEPROM 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  
1000 # 1 0 = SET SPEECH SELECTION  
1000 # 1 1 # = PROGRAM TEL NO 1 (12 DIGITS)  
1000 # 1 1 \* = DISPLAY TEL NO 1 (12 DIGITS)  
1000 # 1 2 # = PROGRAM TEL NO 2 (12 DIGITS)  
1000 # 1 2 \* = DISPLAY TEL NO 2 (12 DIGITS)  
1000 # 1 3 = TRANSMITTER INHIBIT TIME  
1000 # 1 4 = ALARM REPORTING ZONES  
1000 # 1 5 = PERMANENT ACTIVE ZONE  
1000 # 1 6 = ENTRY/EXIT DELAY  
1000 # 1 7 = ENTRY/EXIT DELAY VALUE  
1000 # 1 8 = CHECK-IN TIME  
1000 # 1 9 = SIREN DURATION  
1000 # 1 A = SET DIP SW OF SYSTEM  
1000 # 1 B = SET DIP SW OF REMOTE  
1000 # 1 C # = PROG CUSTOMER ID CODE  
1000 # 1 C \* = DISP CUSTOMER ID CODE  
1000 # 1 D = SELF LEARNING MODE ("0"=EXIT)  
1000 # 2 0 # = PROGRAM "NEXT" REPEATER Number  
1000 # 2 0 \* = DISPLAY "NEXT" REPEATER Number  
1000 # 2 1 # = PROGRAM the "I AM" REPEATER Number  
1000 # 2 1 \* = DISPLAY the "I AM" REPEATER Number  
1000 # 2 2 = PROGRAM ACTIVE WIRELESS SENSOR (SUPERVISION)  
1000 # 2 5 = PROGRAM ACTIVE PERIMETER BEAMS (SPI)  
1000 # 2 9 = ERASE EEPROM IN BOTH KEYPAD AND THE CONTOLUNIT  
1000 # 3 3 = DISPLAY ALARM LOG FILE  
1000 # 3 A = SET PERIMETER PATTERN "A"  
1000 # 3 B = SET PERIMETER PATTERN "B"  
1000 # 3 C = SET PERIMETER PATTERN "C"  
1000 # 3 D = SET PERIMETER PATTERN "D"

## CHANGING PASSWORDS (USING THE DEFAULT / EXISTING PASSWORDS)

### HOW THE INSTALLER CAN CHANGE PASSWORDS

1000 #-># C 0 [PASSWORD] = INSTALL PASSWORD  
1000 #-># C 1 [PASSWORD] = USER 1 PASSWORD  
1000 #-># C 2 [PASSWORD] = USER 2 PASSWORD  
1000 #-># C 3 [PASSWORD] = USER 3 PASSWORD  
1000 #-># C 4 [PASSWORD] = USER 4 PASSWORD  
1000 #-># C 5 [PASSWORD] = USER 5 PASSWORD  
1000 #-># C 6 [PASSWORD] = USER 6 PASSWORD  
1000 #-># C 7 [PASSWORD] = USER 7 PASSWORD  
1000 #-># C 8 [PASSWORD] = USER 8 PASSWORD  
1000 #-># C 9 [PASSWORD] = USER 9 PASSWORD  
1000 #-># C A [PASSWORD] = USER 10 PASSWORD

### HOW USER-1 (MASTER) CAN CHANGE PASSWORDS

1111 #-># 1 [PASSWORD] = USER 1 PASSWORD  
1111 #-># 2 [PASSWORD] = USER 2 PASSWORD  
1111 #-># 3 [PASSWORD] = USER 3 PASSWORD  
1111 #-># 4 [PASSWORD] = USER 4 PASSWORD  
1111 #-># 5 [PASSWORD] = USER 5 PASSWORD  
1111 #-># 6 [PASSWORD] = USER 6 PASSWORD  
1111 #-># 7 [PASSWORD] = USER 7 PASSWORD  
1111 #-># 8 [PASSWORD] = USER 8 PASSWORD  
1111 #-># 9 [PASSWORD] = USER 9 PASSWORD  
1111 #-># A [PASSWORD] = USER 10 PASSWORD

### HOW USERS 2,3,4 & 5 CAN CHANGE THEIR OWN PASSWORDS

2222 #-># = CHANGE PASSWORD USER 2  
4444 #-># = CHANGE PASSWORD USER 4  
3333 #-># = CHANGE PASSWORD USER 3  
5555 #-># = CHANGE PASSWORD USER 5

## CHOOSING ARM / WARN LEVELS IN MULTI-USER MODE

2222 # A = ARM LEVEL B (USER 2)  
3333 # A = ARM LEVEL C (USER 3)  
4444 # A = ARM LEVEL D (USER 4)  
5555 # A = ARM LEVEL A (USER 5)  
2222 # # = DISARM LEVEL B (USER 2)  
3333 # # = DISARM LEVEL C (USER 3)  
4444 # # = DISARM LEVEL D (USER 4)  
5555 # # = DISARM LEVEL A (USER 5)

2222 # [Y] B = WARNING MULTIPLE ZONES (ONLY WITHIN THE MASK)

2222 # [Y] A = ARMING MULTIPLE ZONES (ONLY WITHIN THE MASK)

## CHOOSING ARM / WARN LEVELS AND DISARMING IN NORMAL MODE

1111 # [Z] A = ARM SET BY USER 1  
2222 # [Z] A = ARM SET BY USER 2  
3333 # [Z] A = ARM SET BY USER 3  
4444 # [Z] A = ARM SET BY USER 4  
1111 # [Z] B = WARN SET BY USER 1  
2222 # [Z] B = WARN SET BY USER 2  
3333 # [Z] B = WARN SET BY USER 3  
4444 # [Z] B = WARN SET BY USER 4  
1111 # # = DISARM SYSTEM  
2222 # # = DISARM SYSTEM  
3333 # # = DISARM SYSTEM  
4444 # # = DISARM SYSTEM

## DUAL KEY OPERATIONS AVAILABLE TO THE USER

[A&0] ->[A&0] = DISABLE AUTO-ARMING  
[A&1] ->[A&1] = ENABLE AUTO-ARMING  
[\* & #] -> [\* & #] = SEND PANIC SIGNAL  
[1&3] -> [1&3] = MEDICAL  
[7&9] -> [7&9] = TURN LIGHTS ON / OFF  
[4&6] -> [4&6] = SEND TEST SIGNAL

5+C = STEP THRU INTERCOMS  
4+C = INTERCOM KB 4  
3+C = INTERCOM KB 3  
2+C = INTERCOM KB 2 ( ONLY IF IMPLEMENTED)  
1+C = INTERCOM KB 1 ( WITH HARDWARE)  
0+C = ALL INTERCOMS OFF

## OTHER KEY OPERATIONS AVAILABLE TO THE USER

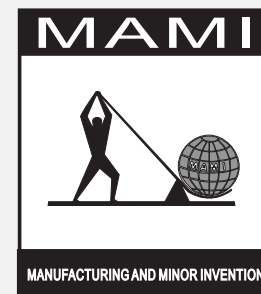
A -> A = SET ARM LEVEL A  
B -> B = SET ARM LEVEL B  
C -> C = SET ARM LEVEL C  
D -> D = SET ARM LEVEL D

\* & A -> \* & A = SET WARN-LEVEL A  
\* & B -> \* & B = SET WARN-LEVEL B  
\* & C -> \* & C = SET WARN-LEVEL C  
\* & D -> \* & D = SET WARN-LEVEL D

???? # 0 [Y] # = SET PERIMETER BEAM MASK  
1111 #-># D = DISABLE/ENABLE THIS KEYPAD  
1111 # 9 [Y] [Y] SET RESPONSE VALUE FOR SECTORS IN THE SPI

## NOTES:

A->A Means: Press and hold the A key until it beeps  
[\*&A ->\*&A] Means: Press and hold the \* and the A keys until it beeps  
[ Y ] Means: Any COMBINATIONS OF numbers 1,2,3,4,5,6,7 or 8  
[ Z ] Means: any A, B, C, D key or any combination of 1,2,3,4,5,6,7 or 8 keys  
[ \* ] Denotes the value when the correct password has been entered  
[7&9] Means: Press BOTH KEYS (7&9) at the same time



# SUPER TRACER

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## SUPER-TRACER CONNECTIONS

CONNECTIONS FOR:-  
- DETECTION CIRCUITS (WIRED)  
- DETECTION CIRCUITS (WIRE-LESS)  
- EXTERNAL SIREN  
- EXTERNAL BUZZER  
- REMOTE CONTROLLED LIGHTS

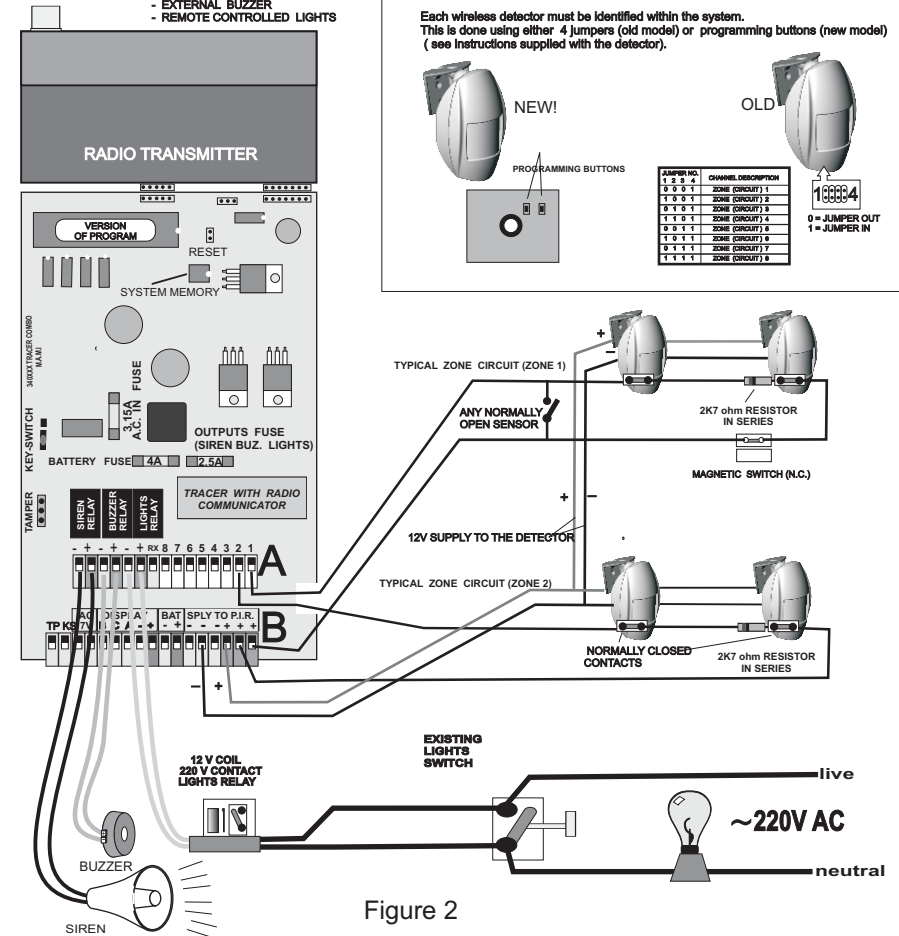
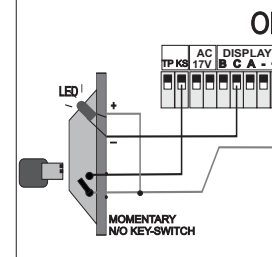
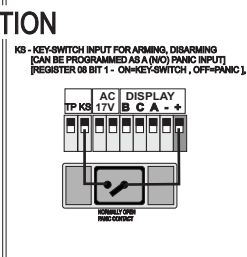


Figure 2

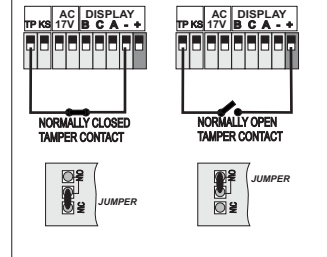
### KEY SWITCH CONNECTIONS



### WIRED PANIC BUTTON INPUT



### TAMPER INPUT



## PAGE 12

## PAGE 1

## 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:
  - battery low in the wireless sensors.
  - arm / disarm.
  - mains failure
  - mains restored
  - panic button
  - low battery in the system.
  - battery restored in system.
  - test transmission
  - Tamper & password change

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

- 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").

- When the trigger condition remains for longer than 15 sec (slow detection).

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

- individual siren activation selection
- individual "warning only" selection
- individual "ENTRY/EXIT DELAY" 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 / shown 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 wired/wireless sensor which caused the warning signal.
- system armed / disarmed indication.
- Entry / exit delay activated.
- system battery is only 80 % charged.

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 "**r**" indicating that the system had a reset.
- The letter "**h**" indicating a warning or a call facility.
- The letter "**u**" indicating the system is not programmed yet.
- The letter "**E**" indicating a tamper condition is present.
- The letter "**?**" indicates that the ID of the keypad is not the same as the ID of the Tracer
- The letter "**j**" indicates wireless Radio Frequency blocking.

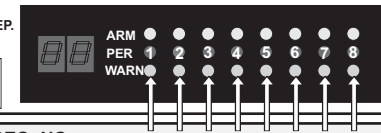


## INSTALLER ( 4 ):

## 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 0 TO 8 TO CHANGE THE CORRESPONDING BIT TO OBTAIN THE DESIRED SELECTION. PRESS "#" TO EXIT.

NOTE: ○ = OFF  
● = ON  
■ = UNUSED



### REGISTER NAME

### INSTALLER CODE

### REG. NO.

SET INDIVIDUAL key pad I.D. NUMBER

1 0 0 0 #

D

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.

HOLD TILL BEEP

MORE THAN 1 SELECTION IS ALLOWED.  
e.g. If 1 & 2 were selected, the unit will respond to all commands addressed to key pads 1 & 2.

### ENABLE LOCAL BLEEPER FUNCTIONS

1 0 0 0 #

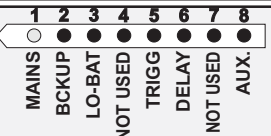
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NOTE: THIS REGISTER DEFINES WHICH CONDITIONS WILL ACTIVATE THE LOCAL BLEEPER.

HOLD TILL BEEP

MAINS: Mains Failure  
BCKUP: System battery low  
LO-BAT: Sensor battery low.

TRIGG: Alarm triggered.  
DELAY: Entry Exit Delay  
AUX: Key Beeps ON/OFF.



### CHANGE INSTALLER CODE

1 0 0 0 #

C 0

? ? ? ? #

### CHANGE CODE OF USER 1 to 10(A)

1 0 0 0 #

C X

? ? ? ? #



AFTER THE NEW CODE ENTRY, THE CODE WILL BE DISPLAYED ONE DIGIT AT THE TIME. ENTER "#" TO ACCEPT THE CODE AFTER IT HAS BEEN DISPLAYED. ANY OTHER KEY WILL REQUIRE THE NEW CODE TO BE RE-ENTERED.

HOLD TILL BEEP

NEW CODE (4 DIGITS)  
NEW CODE (4 DIGITS)  
USER NO 1,2,3,4,5,6,7,8,9,A  
(MULTIUSER MODE - 2,3,4,5 ONLY)

Note: IN MULTIUSER MODE USER 5 REPLACES USER 1  
(no USER 1 rights are available in this mode)

### ENABLE KEYPADS

1 0 0 0 #

1

NOTE: THIS REGISTER ENABLES THE COMMUNICATION BETWEEN THE SUPER TRACER AND KEYPADS.

HOLD TILL BEEP

### CHANGE KEYPAD ID

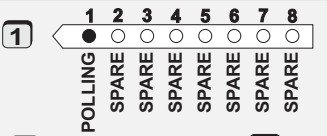
1 0 0 0 #

4

? ? ? ? #

NOTE: THE KEYPAD ID IS THE SUBSCRIBER I.D. AS ON PAGE 9 REGISTER "IC".

HOLD TILL BEEP



## DEFAULTING THE SYSTEM (ERASING MEMORIES)



### ERASE KEYBOARD MEMORY

1 0 0 0 #

9

After this command the unit will reset to load the default values!

HOLD TILL BEEP

NOTE: THIS OPERATION WILL ERASE ALL PRESENT VALUES AND RESTORE THE FACTORY-DEFAULT VALUES INCLUDING KEYBOARD SETTINGS AND USER CODES !!! (ALL SETTINGS SHOWN ON PAGE 12)



### ERASE MEMORY IN CONTOL UNIT

1 0 0 0 #

0 9

After this command the unit will reset to load the default values!

NOTE: THIS OPERATION WILL ERASE ALL PRESENT OPTIONS AND RESTORE THE FACTORY-DEFAULT VALUES INCLUDING ZONE, OPTIONS, WIRELESS CODES ETC !!! (ALL SETTINGS SHOWN ON PAGES 7, 8, 9 & 10)



### ERASE BOTH CONTROL-UNIT AND KEY-BOARD MEMORIES

1 0 0 0 #

2 9

After this command the unit will reset to load the default values!

NOTE: THIS OPERATION WILL ERASE BOTH THE MEMORY IN THE KEY BOARD AND THE CONTROL UNIT AND RESTORE THE FACTORY-DEFAULT VALUES. IT COMBINES THE ABOVE 2 COMMANDS





## 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)  
The unit will monitor these perimeter beams and indicate which beam was triggered. The activation of the beams will either sound locally or will 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 **1 0 0 0 # 2 5 123456** **1 2 3 4 5 6 7 8**

Or AUTO ASSESS SECTORS **1 0 0 0 # 2 3** ... 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 123456**

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 (page8) 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

**LEVEL "A" PRESET** **1 0 0 0 # 3 A 1 2 4 #** **1 2 3 4 5 6 7 8**

**LEVEL "B" PRESET** **1 0 0 0 # 3 B 3 4 #** **1 2 3 4 5 6 7 8**

**LEVEL "C" PRESET** **1 0 0 0 # 3 C 5 6 8 #** **1 2 3 4 5 6 7 8**

**LEVEL "D" PRESET** **1 0 0 0 # 3 D 1 2 4 8 #** **1 2 3 4 5 6 7 8**

Each segment may be programmed to have different response times (on interruption of the Infrared beam).  
These times may vary from 0,3 Seconds to 20 Seconds. Use the table to select the response (interruption time before alarm)  
This is done using the USER 1 code.

SET SENSITIVITY LEVELS FOR EACH SECTOR OF THE PERIMETER ALARM **1 1 1 1 # 9** **?** **#** **?** **#**

USER1 CODE Device No. Level of response

1=0.3 Sec	5= 2 Sec
2=0.5 Sec	6= 5 Sec
3=0.8 Sec	7=10 Sec
4=1.2 Sec	8=20 Sec

THE INSTALLER MAY FURTHERMORE PROGRAM THE FOLLOWING OPTIONS

**OPTIONS (SPI MODE) REGISTER NO.9** **1 0 0 0 # 2 4** **New!!**

SPARE	OFF = USE INDIVIDUAL OUTPUTS	FACTORY DEFAULT
ON = USE COMMON OUTPUT (1) ON MASTER	OFF = LIGHT RELAY FOR 3 MINUTES	
ON = LIGHT RELAY FOR 20 MINUTES	OFF = ANY 3 BREAKS	
ON = IF THREE BREAKS ( SAME 3 BEFORE ALARM)	OFF = NO AUTO-RESETS	
ON = SYSTEM RESETS EVERY 3 HOURS		
SPARE		
SPARE		
ON = MASTER'S OUTPUT IS ACTIVE LOW	OFF= MASTER'S OUTPUT IS ACTIVE HIGH	

Each segment may be programmed to activate either on a single or multiple break(3). See SPI instructions for this option

To arm individual segment of the perimeters enter:

**ARMING INDIVIDUAL PERIMETER SECTIONAL BEAMS** **1 1 1 1 # 0 1 3 6 #**

"0" Indicates Perimeter detection active

**ARM PER WARN** **1 2 3 4 5 6 7 8**

The Key Pad is used to do the following:

- program the system's options.
- access the 4 preset patterns and if necessary change them.
- access each zone individually.
- change the user codes ( 10 different user codes per key pad ).
- activate a panic alarm .
- activate a test signal.
- reset the system /alarm .
- program the tel. number for the "follow-me" reporting .
- Quick-setting one of four preset levels: "A , B , C or D" to ALARM or WARNING
- to activate / deactivate the perimeter Sectors.
- turn on light relay.

Combination of 2 keys pressed simultaneously will give different conditions, these are shown in **Appendix "A"**:

### NOTE:

When arming the system if any of the zones are in open condition the system will sound the key pad bleeper 6 times before initializing the arming sequence.  
During the arming sequence it is possible to cancel the operation by pressing ' 0 ' or shorten the delay by pressing '1'.

To stop the keypad beeping during a Mains Failure, push and hold the '0'.

Most COMMANDS are performed through a 4 CHANNEL HAND-HELD REMOTE CONTROL:

- arming and disarming of the system
- partial arming selection
- partial "warning only" selection
- programming of the 4 different patterns of arming
- panic button
- test transmission
- security lights

### REPORTING OF AN ALARM TO A CONTROL ROOM

Reporting of an alarm can be achieved in 4 different modes:

1- **BY RADIO:** The system will transmit , via radio, 3 times at random intervals within 25 seconds

**NOTE: After each Radio transmission the system is dormant for 12 seconds to allow all detectors to settle down. During this period the "running" LED on the key board will flash.**

2- **BY TELEPHONE:** The System will communicate with the base station via telephone using 2 alternative numbers. If the "FOLLOW-ME " option is set the second number can be that of a "cellular" , a friend or a neighbour and therefore can be changed at will by user "1" . NOTE the audible signal to the alternative number is not intelligible but merely a digital general sound.

3- **BY RADIO AND TELEPHONE:** After transmitting 3 times via radio the system will use the telephone to communicate the signal to a base station or private telephone number.

4- **REPORTING** using NON MAMI Radio/tel. Communicator

When neither of the above communication devices are used, the MAMI **Expander board** (optional) can be used to drive up to 7 outputs on NON MAMI communicators or radio transmitters. The outputs on the expander board are :

- 1 - panic, 2 - system dis-armed, 3 - system armed, 4 - system battery low,
- 5 - sensor battery low, 6 - test, 7 - intrusion / burglary ( see Fig. 1 (page 13)

(A trigger will give a one second +12v pulse on the relative output.)

## EXTRA FUNCTIONS / FEATURES:

1- **STAND-ALONE OPERATION (No Key Pad) - "SNIPER"**

SNIPER operation can be set where a **single Arm / Disarm level operation is needed. (Register 08 / bit 2 )**

The remote control (All users) will arm only **"level A"** instantly

The Keypad can be removed after programming, leaving only remote control and Key-switch for Arming /Disarming.

2- **ARM / DISARM CONFIRMATION**

Re- transmission (confirmation) of Arming and Disarming signals can be selected (register 08 / bit 3, ON to Enable)  
This is meant for business installations where the monitoring of arming status is crucial.

The arming status is sent, randomly between 30 to 60 minutes, after it was initially Armed or Disarmed.

The confirmation is reported to the base-station as a -user 33- Arm/Disarm.

Note: This feature falls away when the telephone communicator is selected.

3- **DURESS**

In life threatening situation. ( When someone forces you to disarm your alarm panel at gun-point) you can make the alarm panel send a duress to the control room.

4- **DURESS ACTIVATION WHEN USING A KEYPAD**

Increment first digit of user code by one (1) when disarming the alarm panel.

I.e if ' 1 2 3 4 # #' is normally pressed, press ' 2 2 3 4 # #' for duress.



#### 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 "08" bit 8.

The End-user can then switch it **on** (A) or **off** (A).

Note: Entry / Exit will only function correctly if Zone 1 is the last zone triggered when you leave your premises.

Level 'A' will be the "at home /sleep" arming pattern and Level 'D' the "away" arming pattern.

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 1 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 "TRIGG" leds will be illuminated on the keypad with buzzer sounding. To cancel the above, enter the user code followed by # #.

#### 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.

**New!!**

#### 8- EVENT MEMORY LOG FACILITY

The SUPER-Tracer-Combo 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.

**New!!**

#### 9- WIRELESS RF BLOCKING

SUPER-TRACER will report a "System Tamper" if Radio Frequency blocking was detected on the system lasting longer then 30 seconds. This is to prevent intruders blocking the RF reception.

**New!!**

#### 10- SPI PERIMETER BEAM

An extra 8 perimeter zones can be installed on the SUPER-Tracer-Combo. 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.

**New!!**

#### 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".

**Please note that 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

**New!!**

#### 13- SWINGER ZONE DISABLE

If the same zone triggers more then 5 times during the same "armed" period the Super-Tracer automatically disables that zones until the next arming or until 10 hours have expired since the last alarm triggered by the "swinger" zone

See page 8

**New!!**

#### 14 - MAINS FAILURE REPORTING WITH NEW LOAD SHEDDING FEATURE.

The Super Tracer will report mains fail/restore 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

**New!!**

### INSTALLER ( 2 ):

#### CIRCUIT (ZONE) OPTION REGISTERS

Each of the 8 zones can be programmed to behave in different ways and perform different tasks. To do this there are several registers:

EXAMPLE 1:  
- CHANGE PRESET LEVEL "A" FROM 1 & 2 ACTIVE TO 1 & 3 ACTIVE.  
- ENTER "1 0 0 0 # 0 A". THE CURRENT SETTING WILL BE SHOWN.  
- ENTER "2" ... LED 2 WILL TURN OFF...  
- ENTER "3" ... LED 3 WILL TURN ON  
- ENTER "\*" TO EXIT

(REGISTER NAME)	(INSTALLER CODE)	(REG NO.)	1	2	3	4	5	6	7	8 ZONES
DETECTION TIME OFF= 0.5 Sec. ON =15 Sec.	1 0 0 0 #	0 4								
SIREN ACTIVATION	1 0 0 0 #	0 5								
OPEN / CLOSE REPORTING	1 0 0 0 #	0 6								
ALARM / RESTORE REPORTING	1 0 0 0 #	0 7								
LEVEL "A" PRESET	1 0 0 0 #	0 A								
LEVEL "B" PRESET	1 0 0 0 #	0 B								
LEVEL "C" PRESET	1 0 0 0 #	0 C								
LEVEL "D" PRESET	1 0 0 0 #	0 D								
ALARM REPORTING ZONE	1 0 0 0 #	1 4								
ALWAYS (24Hrs) ACTIVE ZONE	1 0 0 0 #	1 5								
"ENTRY/EXIT DELAY" ZONE	1 0 0 0 #	1 6								
ACTIVE WirelessL SUPERVISION ZONES	1 0 0 0 #	2 2								

#### SETTING / DISPLAYING TELEPHONE NUMBERS

	(FIRST DIGIT)	(LAST DIGIT)
PROGRAM FIRST TEL. NUMBER	1 0 0 0 #	1 1 # ? ? ? ? ? #
PROGRAM SECOND TEL. NUMBER	1 0 0 0 #	1 2 # ? ? ? ? ? #
( NOTE: USE "*" FOR A 3 SECONDS PAUSE )		
DISPLAY FIRST TEL. NUMBER	1 0 0 0 #	1 1 * THE CURRENT TEL. NUMBER WILL BE DISPLAYED ONE DIGIT AT THE TIME.
DISPLAY SECOND TEL. NUMBER	1 0 0 0 #	1 2 *

#### SUBSCRIBER I.D. SETTING ( TRANSMITTER /COMMUNICATOR CODE)

This is the CUSTOMER i.d. NUMBER sent to the BASE STATION

PROGRAM THE SUBSCRIBER ID	1 0 0 0 #	1 C # ? ? ? ? ?
AFTER ENTERING THE 4TH DIGIT THE NEW CODE IS AUTOMATICALLY STORED IN MEMORY		
READ THE SUBSCRIBER ID	1 0 0 0 #	1 C *
THE CURRENT SUBSCRIBER CODE WILL BE DISPLAYED ONE DIGIT AT THE TIME.		

EVENT MEMORY LOG						(1 TO 9999)
LOG NUMBER	DAY	HOURL	MINUTES	SECONDS	TYPE	
When not reporting to a control room, the user can view 255 events which occurred on the alarm panel. This feature displays the events and time between events as follows :						
ZONES ARMED						
ZONES TRIGGERED						
LIST OF ALARM TYPES :						
USE (A) TO GO TO PREVIOUS EVENT						0 = Alarm
USE (D) TO GO TO THE MORE RECENT EVENT						8 = System Mains Restore
						D = Duress
						d = System Disarmed
						6 = System Mains Fail
						9 = System Battery Restore
						T = Test/Cancel
						7 = System Battery Low
						P = Panic
						A = System Armed

## INSTALLER (1)

### OPTIONS REGISTER NO. 1

1 0 0 0 #

0 1

[options]

#

NOTE: ☐ ON ☐ OFF

ON = SIREN WITH PANIC BUTTON

OFF = SILENT PANIC BUTTON

ON = MULTIUSER OPERATION

OFF = NORMAL OPERATION

ON = AUXIL. SIGNALS ON BEEPER & SIREN

OFF = AUXIL. SIGNALS ON BEEPER ONLY

ON = SIREN AND LIGHTS ( WITH AN ALARM)

OFF = SIREN ONLY

ON = WIRELESS RF BLOCKING ENABLED

OFF = WIRELESS RF BLOCKING DISABLED

ON = PERIMETER MASK LINKED TO ARM LEVEL

OFF = PERIMETER AND ARM MASKS NOT LINKED

ON = TRANSMIT CONTACT - ID CODE

OFF = TRANSMIT M.A.M.I. CODE

ON = REPEATER FUNCTION ENABLED

OFF = REPEATER FUNCTION DISABLED

1  
2  
3  
4  
5  
6  
7  
8  
FACTORY DEFAULT

### OPTIONS REGISTER NO. 2

1 0 0 0 #

0 2

[options]

#

ON = SEND ALARM VIA RADIO

OFF = NO RADIO

ON = SEND ALARM VIA TELEPHONE LINE/GSM

OFF = NO TELEPHONE COMMUNICATOR

ON = REPORT "BATTERY LOW" IN SENSORS

OFF = NO REPORT

ON = REPORT ARM / DISARM SIGNALS

OFF = NO REPORT

ON = REPORT SYSTEM BATTERY LOW

OFF = NO REPORT

ON = REPORT SYSTEM MAINS FAILURE

OFF = REPORT LOAD SHEDDING

ON = SEND USING FTX

OFF = SEND USING DTMF

ON = TONE DIALING

OFF = PULSE DIALING

1  
2  
3  
4  
5  
6  
7  
8  
FACTORY DEFAULT

### OPTIONS (MODE) REGISTER NO.8

1 0 0 0 #

0 8

[options]

#

ON = USE KS INPUT WITH A KEY-SWITCH

OFF = USE KS INPUT AS WIRED PANIC

ON = SNIPER OPERATION

OFF = TRACER OPERATION

ON = ARM/ DISARM CONFIRMATION(REPEATED)

OFF = NO CONFIRMATION(REPEATED)

ON = ZONE SWINGING ENABLED

OFF = ZONE SWINGING DISABLED

ON = REPORT WIRELESS SUPERVISION

OFF = NO REPORT

ON = REPORT SPI ON ZONE 8

OFF = NO REPORT

ON = AUTO ARM TIME - 2HRS

OFF = AUTO ARM TIME - 15 MINUTES

ON = AUTO ARM ENABLED

OFF = AUTO ARM - DISABLED

1  
2  
3  
4  
5  
6  
7  
8  
FACTORY DEFAULT

NB "W-NET" IS USED IN SHARED FREQUENCIES, 'STANDARD' IS USED IN NON SHARED FREQUENCIES

For the next 3 options you need to enter a value between 0 and 250.

EXAMPLES: - To set the **entry-delay** to 35 seconds enter: 1 0 0 0 # 1 7 0 3 5 (sec)  
- To set the **check-in interval time** to 24 hours enter: 1 0 0 0 # 1 8 0 2 4 (hrs)  
- To set the **siren duration** to 4 minutes enter: 1 0 0 0 # 1 9 2 4 0 (4 x 60sec)

ENTRY / EXIT DELAY VALUE (SEC) 1 0 0 0 # 1 7 0 3 5 (35SEC)  
CHECK-IN INTERVAL (HRS) 1 0 0 0 # 1 8 0 2 4 (24HRS)  
SIREN DURATION (SEC) 1 0 0 0 # 1 9 2 4 0 (240SEC)

N.B. - A CHECK-IN INTERVAL VALUE OF "0" WILL AUTOMATICALLY DISABLE THE OPTION ( NO CHECKING-IN TRANSMISSION ).  
- THE "TIME" DELAY IS AUTOMATICALLY SET TO DOUBLE THE "ENTRY" DELAY

FACTORY DEFAULTS  
(35SEC)  
(24HRS)  
(240SEC)

## PROGRAMMING THE REPEATER NUMBER AND FUNCTIONS

Set the "NEXT" Repeater Number

1 0 0 0 #

2 0 #

1

FOR EXAMPLE  
NEXT REPEATER is "1"

Display the "NEXT" Repeater Number

1 0 0 0 #

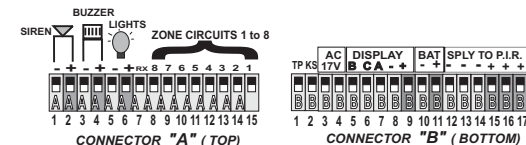
2 0 \*

1

THE CURRENT VALUES  
WILL BE DISPLAYED  
ONE DIGIT AT THE TIME.

## CONNECTIONS

Installing the "SUPER-TRACER" is very simple. All you have to do is connect the external receiver and/or the long range transmitter or telephone communicator. The connections are easy to read and to understand. Connect the battery, the external transformer and wire up the different zone circuits and audible devices such as the buzzer and siren. These connections are as follows :  
(CONNECTOR STRIPS A and B)



### 1 - ALARM CIRCUIT CONNECTIONS:

There are 8 inputs available on the TRACER - COMBO (A8 TO A15). For proper operation a 2.7 KOhm resistor is required at the end of each zone (last detector)

Any one will trigger if 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 - 3 Amp 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 that light circuits. Option 4 of register 1 will allow for the 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 2&3. The lights will switch off 4 minutes after the last activation.

NOTE : The combined current the 3 relays may supply is limited by a 2.5Amp fuse.

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.

Multiple Normally closed switches must be connected in series  
Multiple Normally Open contact must be connected in parallel.

An "E" is displayed to indicate a tamper condition until the input is restored. The **Tamper input is always active. (24 hours).**

9- 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 08 / 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 "KS" [B2].

An Arm / Disarm indication LED can be connected between 12v positive "+" [B9] (positive) and "C" [B6] (negative). (An LED can also be connected on the keypads to indicate Arm / Disarm.)The LED starts flashing after the panel has been triggered ( NO EXTERNAL RESISTOR IS REQUIRED).

To use the [KS] input for hardwired panic buttons (normally open), program Register 08 / bit 1 as OFF. Panic buttons are connected in parallel between 12v Positive "+" [B15, B16 or B17] and "KS" [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. [B8](-) for negative supply [B9] (+) for positive 12 v 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 TEMPORARELY 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.**

## WIRELESS DETECTORS and REMOTE CONTROL operation

Using wireless sensors is simple provided you are aware of the following facts:

1- The operating range may vary widely from one installation and location to another. The position of the radio receiver is therefore critical and must be chosen accordingly.

2- Each installation requires two exclusive I.D. Codes :

- a DETECTOR CODE for sensors and detectors and...
  - a REMOTE CONTROL CODE for the hand held remote controls
- an optional 3rd CODE ( RESPONSE ) may be used to indicate to the control room that armed response is on site with their own remote control

- Each code has two parts: **IDENTIFICATION** and **FUNCTION**

**IDENTIFICATION** : This is the part that makes that device recognizable by the system.

The SUPER-TRACER recognizes two different formats: A 10 bit code (old) and a 16 BIT code (new) known as **Smart-Code**

**FUNCTION** : This is the part of the code which defines the function which that device has e.g. ZONE number ( for detectors ) or arm/disarm, panic, test ( for remote controls ). The functions are determined by a 4 bit configuration. See table 1 and 2

**NOTE:**

- A wireless sensor transmits an alarm condition only for a short period of time (2 - 4 Seconds)
- To save power the sensors are designed not to transmit if continuous movement is detected.
- A detector will only transmit if either a 30 seconds (test mode ) or 3 minutes (normal mode) has elapsed from the last detection.

Although each code and function can be programmed individually IT IS EASIER TO PROGRAM THE SENSORS and THE REMOTE CONTROL FIRST and then program the code into the SUPER-TRACER! unit using the self learning method. ( see page 7 )

FUNCTION selection of the DETECTORS CODE

Table 1

BIT SETTING: 4 3 2 1	FUNCTION WHEN ACTIVATED	BIT SETTING: 4 3 2 1	FUNCTION WHEN ACTIVATED
0 0 0 0	WARNING (1 SEC ON BLEEPER)	1 0 0 0	ZONE 1
0 0 0 1	PANIC ACTIVATED	1 0 0 1	ZONE 2
0 0 1 0	DURESS	1 0 1 0	ZONE 3
0 0 1 1	NOT USED	1 0 1 1	ZONE 4
0 1 0 0	KEYPAD RELAY 1	1 1 0 0	ZONE 5
0 1 0 1	KEYPAD RELAY 2	1 1 0 1	ZONE 6
0 1 1 0	EXTERNAL LIGHT ACTIVATION	1 1 1 0	ZONE 7
0 1 1 1	NOT USED	1 1 1 1	ZONE 8

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

FUNCTION selection of the REMOTE CONTROL CODE

Table 2

BRIDGE NO. 1=ON 0=OFF 4 3 2 1	FUNCTION WHEN ACTIVATED	APPLICATION	BRIDGE NO. 1=ON 0=OFF 4 3 2 1	FUNCTION
0 0 0 0	WARNING (1 SEC ON BLEEPER)	DOOR BELL/POOL WARNING	1 0 0 0	ARM/DISARM Remote Control USER 2
0 0 0 1	PANIC ACTIVATED	EMERGENCY / MEDICAL ASSISTANCE	1 0 0 1	not used
0 0 1 0	ARM/DISARM (USER1)	TURN SYSTEM ON OR OFF	1 0 1 0	ARM/DISARM Remote Control USER 3
0 0 1 1	TEST TRANSMISSION	CHECK IF THE SYSTEM IS WORKING	1 0 1 1	not used
0 1 0 0	ARM ONLY (to "D" level)		1 1 0 0	ARM/DISARM Remote control USER 4
0 1 0 1	DISARM ONLY		1 1 0 1	not used
0 1 1 0	EXTERNAL LIGHT ACTIVATION	SECURITY LIGHT/MANUAL ACTIVATION	1 1 1 0	ARM/DISARM Remote Control USER 5
0 1 1 1	NOT USED		1 1 1 1	not used

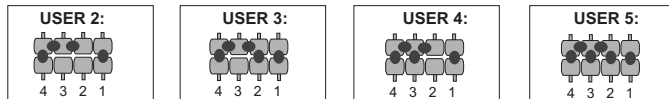
Remote Control may have up to four buttons and each button may be programmed to carry out a specific task  
The standard unit supplied has only two buttons 1= Panic, 2=Arm/Diasrm.

### CONFIGURATION OF REMOTE CONTROLS IN MULTIUSER MODE:

In MULTIUSER MODE Each user must have a remote control with button 2 set as shown below and in table 2

(Button 1 for Panic = Channel 1)

(Button 2 ARM /DISARM USER X)



Solder Bridges on  
Back of Remote Control  
1= Solder On  
0= Solder Off

## INSTALLER PROGRAMMING THE SUPER-TRACER

THE TRACER IS ORIGINALLY PROGRAMMED WITH A "FACTORY DEFAULT" SET OF OPTIONS. ALTHOUGH THE "FACTORY" OPTIONS REFLECT THE CHOICE OF THE MAJORITY OF INSTALLERS AND END-USERS, PROPER OPERATION AND COMPLIANCE WITH SPECIFIC REQUIREMENTS CAN BE ACHIEVED THROUGH REPROGRAMMING. THE PROGRAMMABLE OPTIONS ARE DIVIDED INTO 4 SECTIONS: SECTIONS 1, 2, 3 AND 4 RELATE TO THE MAIN BOARD. SECTION 4 IS RELATES TO THE KEYPAD UNIT ITSELF.

- 1 - ENCODING THE WIRELESS DETECTORS AND REMOTE CONTROLS
- 2 - SYSTEM OPTION REGISTERS.
- 3 - SYSTEM I.D. CODES AND TEL. NUMBERS
- 4 - CIRCUIT (ZONE) OPTION REGISTERS.
- 5 - KEYPAD LOCAL OPTION REGISTERS.



## PROGRAMMING THE DETECTOR AND REMOTE CONTROL CODES

### SELF LEARNING OF REMOTE CONTROL AND DETECTORS CODE

Following is the procedure to program the Detectors and Remote Controls to operate properly with the SUPER-TRACER:

1- program the sensors / detectors following the instructions supplied with each device keeping THE SAME code for detectors.

2- program the ZONE number ( function ) according to your requirements (table 1- page6)

3- enter the self learning mode in the SUPER-TRACER by entering:

1 0 0 0 # 1 D

4- activate any of the programmed detectors making sure that the SUPER-TRACER displays the received code

5- press **A** to store/learn the DETECTOR's code

6- Re-enter the self learning mode in the SUPER-TRACER by entering:

1 0 0 0 # 1 D

7- press any button on the remote control until the SUPER-TRACER displays the different code received.

5- press **B** to store / learn the REMOTE CONTROL code.

Using the same method a 3rd code may be stored using the **C** key to define the code used by an Armed Response officer to send a "standing" signal to base. Please note that this code cannot be entered manually ( only by self-learn)

### MANUALLY PROGRAMMING THE REMOTE CONTROL AND DETECTORS CODE.

1 - Enter the manual setting mode by entering: 1 0 0 0 # 1 A for the Detectors code  
or: 1 0 0 0 # 1 B for the Remote Control code

New!!

2 - set the desired code by toggling each bit of the code using keys 1 to #

(see TABLE)

BIT NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
KEY	1	2	3	4	5	6	7	8	9	0	A	B	C	D	*	#

3 - press **\*** and **#** buttons together to store the code and exit .

4 - the decimal equivalent of the stored code will be displayed one digit at the time. Enter **0** to exit

**INSTALLER CODE**

SET DETECTORS CODE 1 0 0 0 # 1 A

SET REMOTE CONTROL CODE 1 0 0 0 # 1 B

REG. NO. 1 A

1 2 3 4 5 6 7 8

9 0 A B C D \* #

FACTORY DEFAULT

The new SUPER-TRACER introduces a new Code structure known as "SMART CODE"

which has many advantages to the old 10 bit code. These features are:

- 16 BITS = 65,535 CODE COMBINATIONS.

- multiple PARITY and CHECKSUM = each segment of the code has CHECK SUM and PARITY. which results in: - wider scope and applications , less duplicate codes and very reliable operation.

New!!

## WIRELESS ZONE SUPERVISION TEST

(Please note: Both the "Wireless Zone supervision" option (Pg 8) and the active wireless zones (pg 9) need to be enabled by the installer before this function will work correctly.)

The SUPER-TRACER is capable of reporting a faulty wireless detector.

To display the faulty (non reporting) wireless detector press and hold the **\*** key until it beeps

### WIRELESS ZONE SUPERVISION



An "F" is shown on the display.



New!!