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PRODUCT RANGE:

- WIRED INTRUDER ALARM SYSTEMS

- WIRELESS INTRUDER ALARM SYSTEMS

- HYBRID INTRUDER ALARM SYSTEMS

- AUTOMATION & IP SYSTEMS

- VIDEO DOOR PHONES

- STAND ALONE PIR MOTION SENSORS

- FIRE ALARM SYSTEMS

- GUARD MONITORING SYSTEMS

SECURICO

Securico Electronics India Limited

Manufacturers of World Class Security, Fire & Automation Systems

www.securicoelectronics.com

PROTECTOR PLUS

User Manual
User Manual
User Manual

PROTECTOR PLUS

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FALCON PROTECTOR PLUS FEATURES

4 ZONE CONTROL PANEL WITH ONBOARD KEY PAD

- MICRO-CONTROLLER BASED
- OPERATION FROM ONBOARD KEY PAD
- ABS HOUSING
- 4 ZONES
- ONE DELAY ZONE, TWO IMMEDIATE ZONES
- ONE 24 HOUR PANIC ZONE
- 4 DIGIT CODE USER CODE PROGRAMMABLE FROM KEY PAD
- PANIC ALARM ACTIVATION ON KEY PAD
- ENTRY / EXIT DELAY SELECTION OF 15,30,60 OR 120 SECONDS
- SPECIAL ARMING MODE TO AUTOMATICALLY BYPASS OPEN ZONES
- NIGHT MODE ARMING
- SOUNDER TIME 20 MINUTES
- WARNING BUZZER ON 12 WRONG KEYS IN DISARMED STATE
- IN-BUILT TAMPER SWITCH IN PANEL
- MAINS LED INDICATION
- BATTERY LED INDICATION
- IN-BUILT BATTERY BACK-UP PROVISION
- AUTOMATIC RE-ARMING AFTER ALARM
- SELF-TEST FACILITY AND AUTOMATIC SELF-TEST ON RESET

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1 - GETTING STARTED

1 - 1 FACTORY SETTINGS

FACTORY SETTINGS:

User Code	:	4321 (programmable)
Entry / Exit Delay	:	30 seconds (programmable)
Sounder Time	:	20 minutes (fixed)

Zone Status:

Zone 1	-	Delay / Entry-Exit
Zone 2	-	Immediate
Zone 3	-	Immediate
Zone 4P	-	Panic Zone

NOTE : The panic zone can also be used as a fire zone

1 - 2 SYSTEM STATUS

DAY (DISARMED) MODE

The system is in the **day mode** when it is not **armed**. In this mode, only the **panic** and **fire** zone will be actively operational and can bring the system into an alarm state. If any of the other zones are opened, the zone LED on the control panel will glow.

ARMED MODE

The system is in the **armed mode** when all active* zones are operational and can bring the system into alarm state.

* certain zones can be temporarily omitted from the system.Please refer to Section 2-3 for omitting zones.

1-3 ZONES

There are four types of zones in the control panel:

Entry/Exit: An entry/exit zone will actively raise an alarm only if the system is armed. However, an entry / exit zone allows for a programmed delay during which the user can enter the code and prevent the alarm from sounding. If the user does not enter the code in the programmed amount of time, the alarm will sound. The main entry is usually the entry/exit zone so as to allow the user to enter the premises without raising the alarm. Entry/Exit zones are also referred to as delay zones.

Immediate: An immediate zone will actively raise an alarm only if the system is armed. If anyone enters the premises through an immediate zone while the system is armed, the alarm will sound immediately. Immediate zones usually include all the doors and windows other than the main entry, since the user is unlikely to enter the premises through these.

Panic: A Panic zone is a 24 hour zone and will raise an alarm when the panic switch is pressed irrespective of whether the system is armed or disarmed.

In the Protector,you may install fire sensors in zone 4P

2 - OPERATING PROCEDURE

2 - 1 FULL ARMING

In the FULL ARMING mode all existing zones are armed. A preset (programmed) period of time will be allowed to exit the premises before the system is fully armed. All zones must be closed within this period.

• Press ENTER

• Press 6

All zones will be armed and the **ARMED** LED will glow.

2 - 2 NIGHT ARMING

This unique feature enables you to temporarily make all delay (entry/exit) zones into immediate zones. In the case that all users are within the premises when the system is armed at night and any delay zones are not required, the Night Arming feature can be used. This feature is particularly helpful when the system is installed in a residence.

Full Night Arming :

• Press ENTER

• Press 9

All zones will be armed and all delay zones will temporarily become immediate zones. The **ARMED** LED will glow.

2-3 ARMING WITH BY PASSING OPEN ZONES

Ensure all zones you would like armed are closed and all zones you would like by passed are open.

• Enter User Code **XXXX**

• **CODE** LED will glow

• Press 9 for NIGHT ARMING

Or

- Press 6 for FULL ARMING

All zones will be armed and all open zones will be bypassed. The **ARMED** LED will glow.

2 - 4   DISARMING THE SYSTEM

- Enter USER CODE **XXXX**

The system will disarm and the **ARMED** LED will switch off.

If zone no. 1 is opened while the system is armed, you must enter the user code within the entry/exit delay time. Failing to do so will result in the activation of the alarm.

2 - 5   TO CHANGE THE USER CODE

- Enter existing USER CODE **XXXX**
- **CODE** LED will blink
- Press 3
- Enter new 4 digit USER CODE **XXXX**
- There will be 4 confirmation beeps
- Repeat new USER CODE **XXXX**
- There will be 4 confirmation beeps again.

The code will be changed and the new code will be effective.

If there is an error, 10 fast error beeps will be heard and the new code will be rejected. The old user code will remain operational.

2 - 6 SETTING ENTRY/EXIT TIME

There are BERG jumpers A & B on the main circuit card inside the panel.

These are used to set one of the four options of entry-exit delay times.

A B
J1 ☐☐☐

J2 ☐☐☐

To Select A place jumper as follows :

A B
☐■☐☐

To Select B place jumper as follows :

A B
☐☐■☐

Selection Table :

DELAY TIME (SECONDS)	J1	J2
15	B	B
30	A	B
60	B	A
120	A	A

NOTE:To change the entry-exit time, after changing any jumper setting for entry-exit delay time, remove complete power (mains + battery) and re-apply to make the new jumper setting effective.

2 - 7 STOPPING THE SOUNDER

The sounder or internal buzzer will sound for one of the following reasons:

- The system has been triggered

- The panic zone has been triggered

- There has been a wrong code entry

- There has been a circuit or device tamper

To stop the sounder or internal buzzer:

- Enter the USER code **XXXX.**

If the panel is already armed, then it will also disarm.

2 - 8 ACTIVATING PANIC ALARM FROM CONTROL PANEL

To activate the panic alarm directly from the control panel key pad.

• Press 0 two times

2 - 9 SELF TEST

The panel has a self test facility by which you can check each of the LEDs, the internal buzzer and the sounder/s. To perform the self test:

• Press ◇

3 - OTHER USEFUL INFORMATION

3 - 1 FORGOTTEN CODE

If the user has forgotten the code, the panel has to be reset to Factory Settings

To reset to Factory Settings :

• Disconnect all power supply and the battery from the main control panel station.

• Reconnect the power supply.

• The panel will reset to factory settings and the master code will be reset to **4321**. Please refer to section 1-3 for Factory Settings.

3 - 2 KEYPAD LIGHTING

In order to make it easier to operate the control panel, the key pad is fully backlit. The key pad will illuminate if a button is pressed or any zone is opened. The lights switch off automatically after 2 minutes.

3 - 3 SAFETY FUSES

As an additional safety feature, the control panel has one mains AC fuse on the power supply card and two safety fuses on the main circuit board. In the event of an overload in the power supply, sounder or auxiliary supply circuits, a fuse will blow. This fuse must be replaced. You may contact your nearest service centre for assistance.

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3 - 4 IMPORTANT NOTES

- After changing any jumper setting for entry/exit delay time, complete power should be removed and re-applied so that new jumper setting becomes effective.

- 00 can not be used as part of the user code since this is the fixed panic code.

- In disarmed condition, if due to some fault PANIC zone remains open after sounder stops. All LEDs will glow until the panic fault is rectified.

- While changing the code, panic alarm will not function.

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4 - TECHNICAL SPECIFICATIONS

ELECTRICAL

Quiescent current: 75ma typical

Maximum sounder1 current output: 1A

Sounder saturation Voltage: <1V at 1A

Zone response time: <500mS

POWER SUPPLY

Mains supply Voltage: 220+10% -15% 50Hz

Total current Output: 800MA at 220V AC (Fuse JA 20mm On Main Card)

Regulation: <9%

Ripple: <200mv RMS

Battery VOLTAGE: 12V DC

Battery type: SMF Rechargeable

Battery Recharge voltage: 13.8V +/-0.2V DC

Fuse: 250ma 20mm AC Mains on PS Card

ENVIRONMENTAL

Operating Temperature: 0C to 45C

Storage Temperature: -20C to 60C

Maximum humidity: 95% non-condensing

Environment: residential / commercial / light Industrial

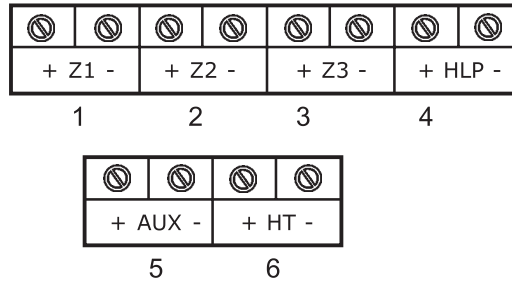### PHYSICAL

Dimensions: 236 mm x 226 mm x 80 mm
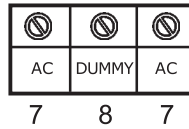
Max Battery Dimensions: 150 mm x 110 mm x 64 mm

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5 - CONNECTION DIAGRAM

MAIN PCB

+ Z1 -	+ Z2 -	+ Z3 -	+ HLP -
1	2	3	4

POWER SUPPLY PCB

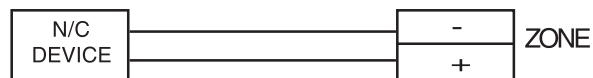| AC	DUMMY	AC
7	8	7

+ AUX -	+ HT -
5	6

1) + Z1 - To ZONE NO. 1 Devices (Short with jumper if not applicable)

2) + Z2 - To ZONE NO. 2 Devices (Short with jumper if not applicable)

3) + Z3 - To ZONE NO. 3 Devices (Short with jumper if not applicable)

4) + HLP - To PANIC ZONE Devices (Short with jumper if not applicable)

5) + AUX - 12 V DC Supply

6) + HT - To Sounders

7) AC Connect to mains

8) DUMMY Spare dummy connector
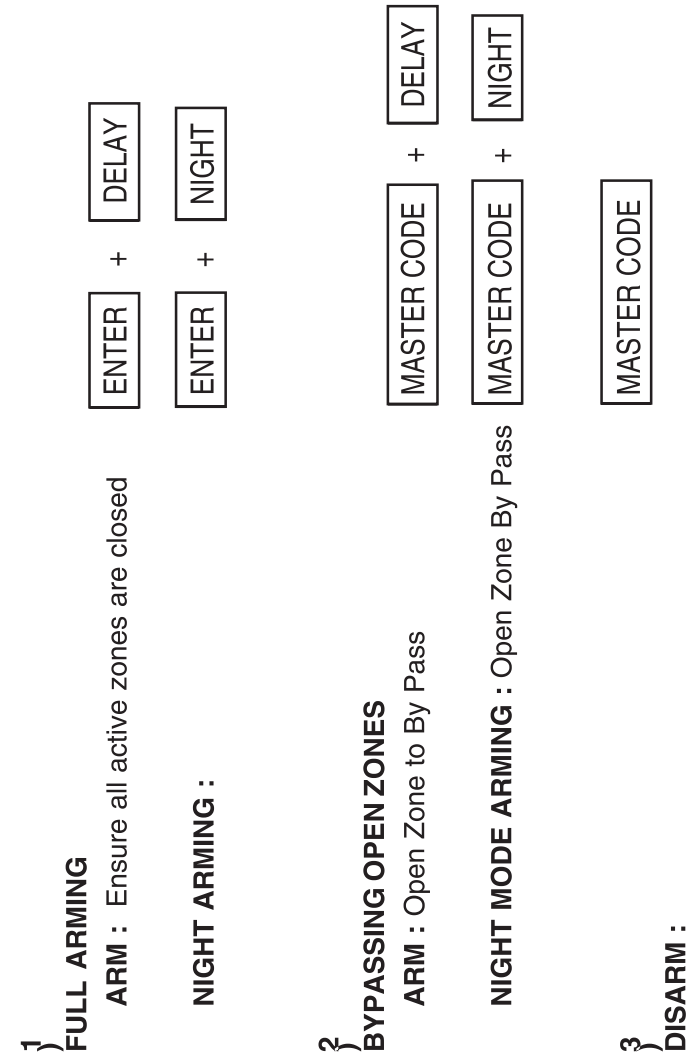
DEVICE TYPE N/C (Normal Close) Connections :-

N/C DEVICE —— ZONE (- / +)

DEVICE TYPE N/O (Normal Open) Connections :-

N/O DEVICE —— ZONE (- / +)

TO AU-

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6 - QUICK FUNCTION GUIDE

1) FULL ARMING

ENTER + DELAY

ARM : Ensure all active zones are closed

NIGHT ARMING :

ENTER + NIGHT

2) BYPASSING OPEN ZONES

MASTER CODE + DELAY

ARM : Open Zone to By Pass

NIGHT MODE ARMING : Open Zone By Pass

MASTER CODE + NIGHT

3) DISARM :

MASTER CODE

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7 - ZONE LOCATION CARD

ZONE LOCATIONS

	Zone 1	Zone 2	Zone 3	Zone 4P
LOCATION				
LOCATION				
LOCATION				
LOCATION				