teknim®
security technology

VAP404

INSTALLATION & OPERATION MANUAL

Issue Date: 09/07/2013
Software version 3.0 and higher

TD-1/07-008

SAFETY PRECAUTIONS

Read this guide carefully before operating device and keep this guide for later reference. Follow all operating and safety instructions in this guide.
Keep devices away from dust and moisture.
Locate device to the straight place in order not to damage it.
Use device together with metal box .

OPERATING CONDITIONS :
Don't operate device beyond following values.

Temperature : Between 0°C and +65°C
Humidity : %95 in +40°C

POWER SUPPLY:
Use device only with voltage mentioned in guide. If you are not sure about supply voltage you will connect, contact with your vendor.

GROUNDING :
Before connecting power supply, control if grounding works properly.

SUPPLY CABLE PROTECTION :
Protect the supply cable against breaking and crushing.

CURRENT LIMIT:
Don't connect devices that consume current exceeds limits.

OBJECT and LIQUID ENTRY :
Never push any kind of objects or liquid into this unit as they may short-out parts that could result in a fire or electrical shock.

SERVICE :
Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

CONDITIONS NEED SERVICE :
Contact with your vendor on the following conditions

- If power cable or plug is damaged ,
- If any kind of objects drops into unit ,
- If unit is exposed to water or rain ,
- If unit is dropped or cover is damaged ,
- If you realize that device doesn't work properly
- If unit doesn't operate properly in operating conditions ,

SPARE PART :
If parts of device are changed to repair, ensure that technician uses original parts against electrical shock, fire, etc.

SECURITY CONTROL :
To control if your device operates in healthy and convenient conditions, demand service from your vendor.

TABLE OF CONTENTS

1. INTRODUCTION

VAP404 is 4+4 zone alarm panel that meets desires. It has simple usage also let technician to configure user needs simply.

Simple Mounting
- Panel is mounted wall by three holes.
- Panel case has cable holes to pass cables through Panel PCB.
- Functions of terminals is written on PCB. Connect cables to proper place.
- Connect telephone lines
- Connect Battery and AC Power

Simple Maintenance
- Device monitors troubles instantly.
- Test feature provides simple maintenance.
- 256 events are hold in memory.
- Battery doesn't need maintenance.

Simple Programming
- Programming addresses are grouped by feature.
- Installer can configure panel, only by setting user codes, phone numbers.
- All settings can be configured or can be downloaded to computer, by using PC software and connection cable,

Simple Usage
- Simply arm/disarm panel by entering code.
- **S**mart **P**artition **T**echnology provides quick arming.
- Arm/Disarm by Remote controller.
- Arm/Disarm by Telephone
- Arm/Disarm by Key.
- Automatic Arm/Disarm feature by Timers.

Simple Automation
- When panel is armed, ARM output activates and can be used control anything.
- PGM outputs can be activated by timers.
- PGM outputs can be activated by assigned zones or partitions to PGMs.
- PGM outputs can be used as ARM or SRN output.
- PGM outputs can be activated on condition of fire or can be used to reset fire detectors.
- PGM outputs can be controlled by Telephone.
- PGM outputs can be controlled by Keypad.

Simple Management
- Time limit can be assigned to users
- Users can arm specific partitions.
- Users keypads can be selected.

Smart Partition Technology
- Without creating partition , zones are assigned to partitions defined before. Doors are assigned to **C Button**, windows are assigned to **B Button**, interior zones are assigned to **A Button** , exterior zones are assigned to **D Button**.
- Doors are armed with **C Button** ,windows are armed with **B button** quickly.
- You can arm zones except interior zones when you are in home by using **A Button** ,
- You can fully arm panel by using **D Button**.

2. FEATURES

Inputs
- Programmable 4+4 zone
- NC,NO, 1-EOL Resistor, 2-EOL Resistor zones, Double Zone.
- Different zone types (Door, Window, Tamper, Fire etc.)
- Additional features assigned zones(Follower zone, end zone, silent zone etc)
- Enter/Exit delays for each partition.
- KEY input to arm
- Sabotage switch on Panel and Keypad

Outputs
- Programmable outputs (NC, NO)
- Siren Output; SRN (NC, NO, cutoff time)
- ARM Output (NC, NO)

Siren
- Outdoor or Indoor can be connected
- Adjustable cutoff time(2~255 minutes)

Keypad
- Can be used with 4 Keypads(max)
- Addressable Keypads
- LED or LCD Keypads can be used together
- Programmable backlight
- Displays event logs
- Displays Ready, Armed, Trouble, Fire status
- Shortcut buttons like Test, Report, Memory.
- Only displays zones assigned to Keypads
- Chime option
- Keypad Dimensions: 150mm(width) x 120mm (Length) x 22mm (Height)

General Features
- 5 user codes,1 Master code, 1 installer code, 1 Guest code, 1 Ambush code, 1 PC Connection Code
- Real time clock
- 256 event logs
- 6 user phone numbers
- Communicator supports 2 Central Monitoring Stations (Contact ID, 4+2,4+1,3+2,3+1 (DTMF))
- Each Central Monitoring Station has 2 phone numbers
- Manuel and Automatic Bypass
- **S**mart **P**artition **T**echnology
- PC connection by USB or COM Port
- 2 Timers
- PGM outputs can be controlled by telephone

Types of Arming/Disarming Panel
- Arm with single button
- Arm/Disarm specific partitions
- Automatic Arm/Disarm panel in the specific time.
- Arm/Disarm with KEY Input
- Arm/Disarm with remote control unit(Remote control module must be connected to Panel)
- Arm/Disarm by telephone

Alarm Types
- Siren Alarm: siren alarms, panel dials user and Central Monitoring Station
- Silent Alarm: siren doesn't alarm, panel dials user and Central Monitoring Station.

Electrical & Mechanical Features
- 220~230V AC Voltage
- Fuse AC Voltage(125mA)
- Power supply for external units with electronic fuses
- 12V DC Current Output(Siren + AUX + Keypad) : 1A (max)
- Current limited battery charge circuit
- 2 x 12V 7Ah battery can be connected.
- PGM1, PGM2, ARM output current:: 300mA max. Total current output of PGM1,PGM2, ARM: 500mA max.
- SRN output current:: 500mA max.
- Dimensions: 310mm(width) x 302mm (Length) x 83mm (Height)
- Weight(± 2 gr) : 2785 gr / 3095 gr (Packaged)

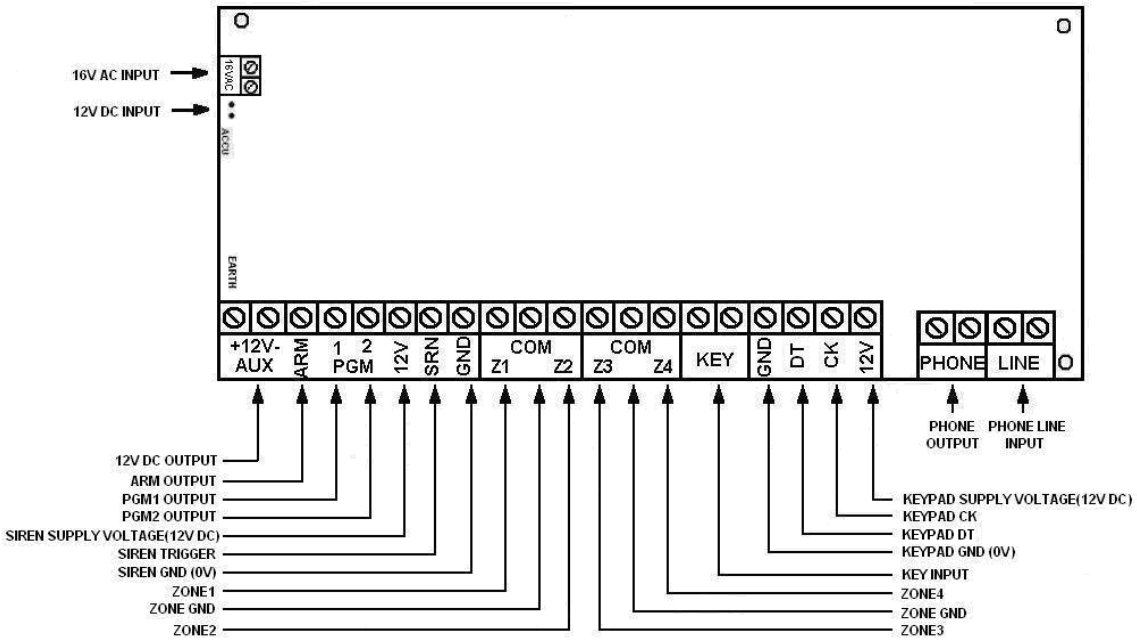
Optional Modules
- Voice recording module, Voice message module (includes 8 messages), Remote Control module, 4-zone expansion module, RS-232 PC link module, USB PC link module, Relay module, X-10 module, Network module, Modem module.

3. MOUNTING

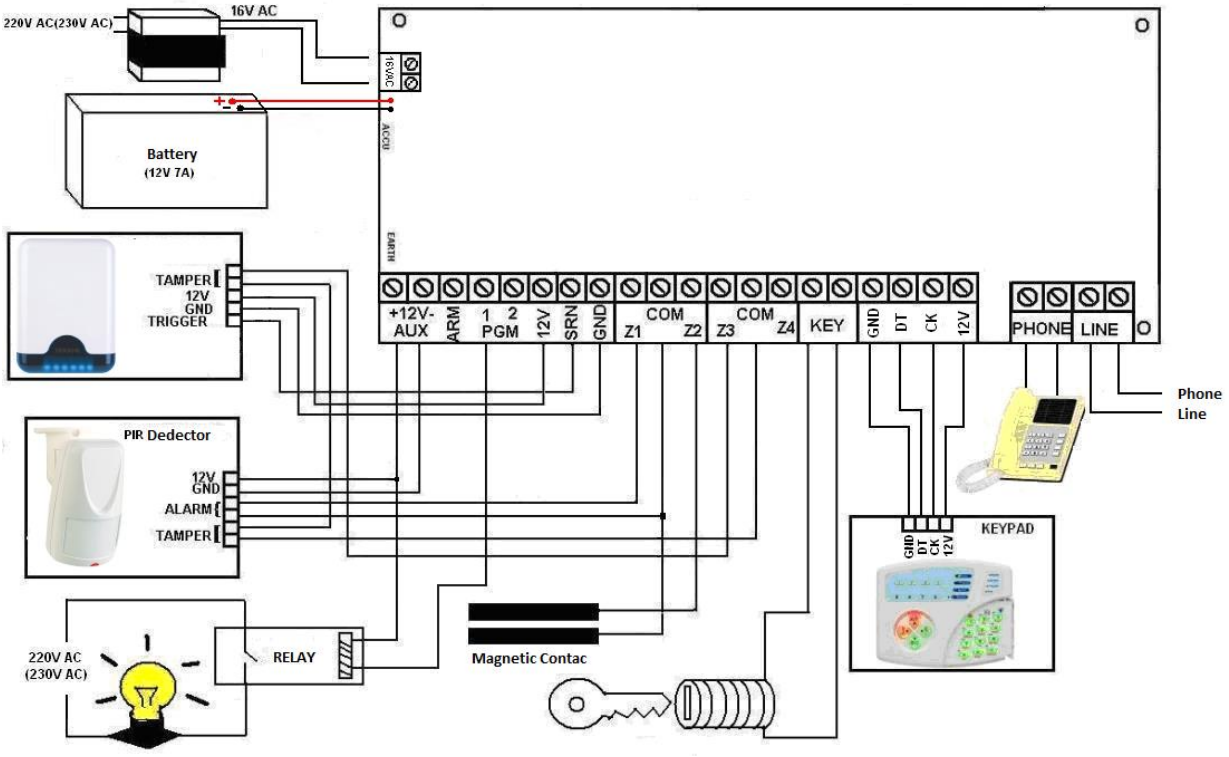
WARNING! : Don't connect power to panel without finishing wiring.

3.1. GENERAL

Drill necessary holes on the wall and then mount panel case to wall by using proper holes. Metal cover of panel constitute of body and cover. Cover is opened by removing two screws. Detectors, siren, and telephone line are connected to Panel by using proper cables. (It is recommended to you use wire screened cable or silver foiled LIYCY cable and ground the mains voltage) Before connecting supply voltage, make sure that all connections are made correctly. Also it is recommended to connect keypad cable foil to panel GND and keypad GND. For the mains voltage connection, 3x0.75 mm² standard cable may be usedDescriptions of panel terminals are in the following picture.



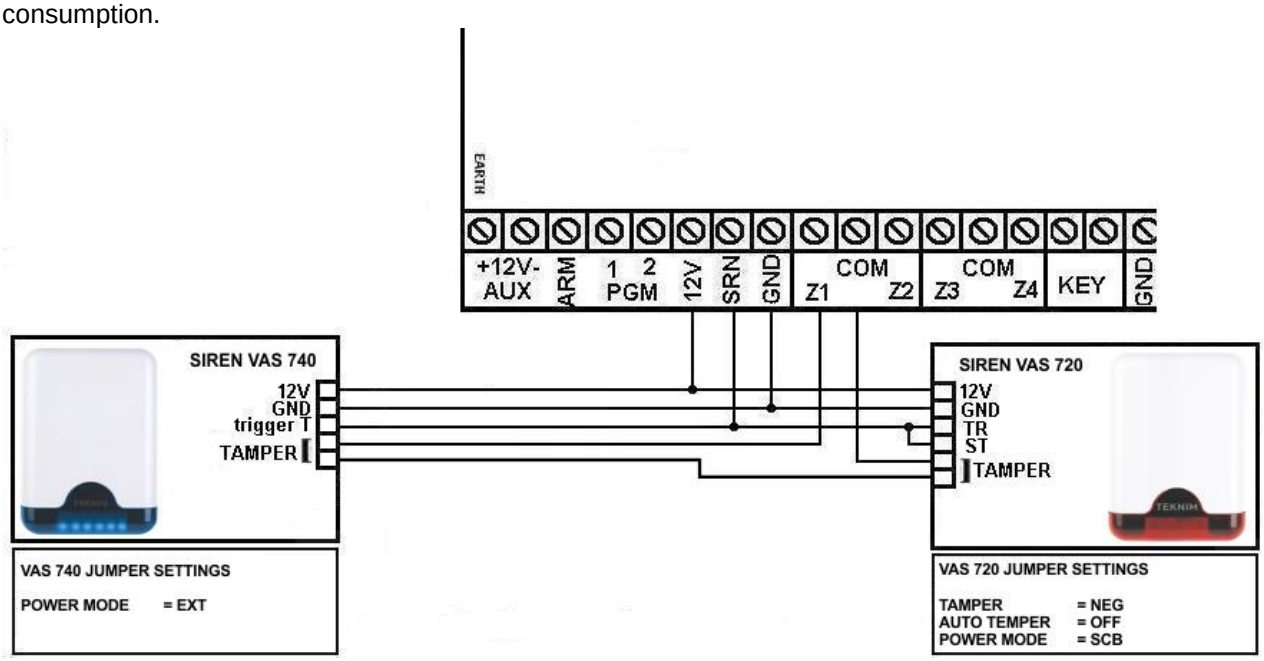
Following picture shows panel connections.



3.2. SIREN CONNECTION

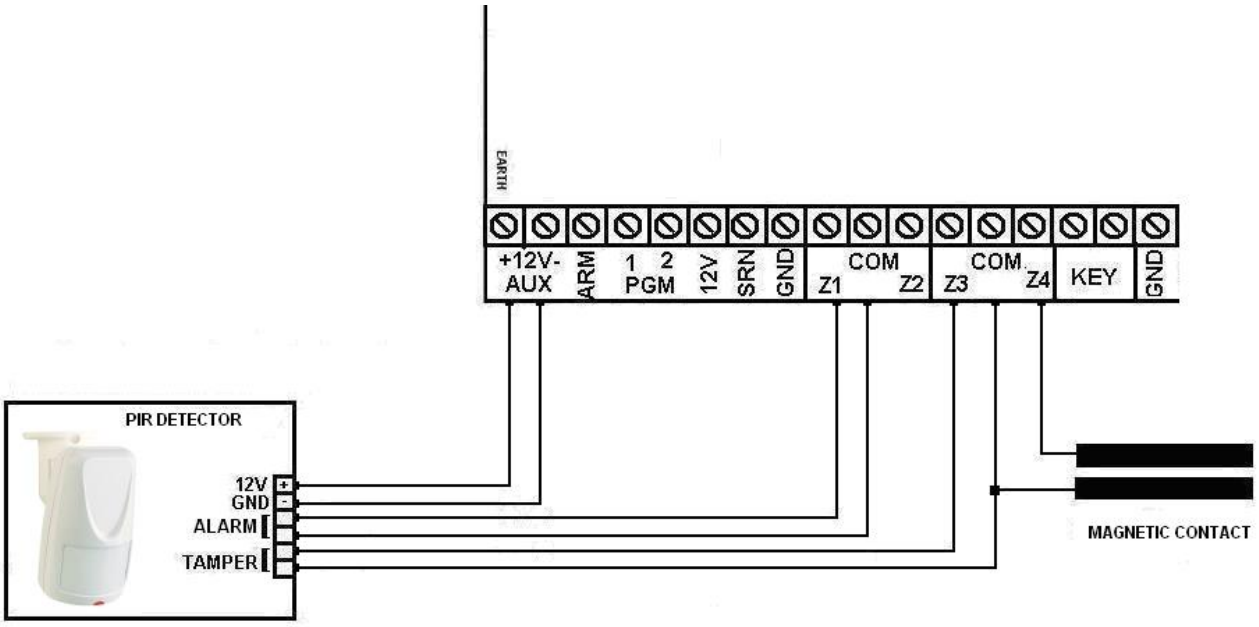
Siren connection is made by **12V**,**SRN**,**GND** terminals.**12V** and **GND** is supply voltage of Siren. Trigger output of Siren is **SRN**. Siren output can be programmed as NO ,NC. If 2 sirens is connected, one of sirens should be used in SCB mode.

When 2 sirens are connected to panel, one of the sirens should be on SCB mode to increase current consumption.



3.3. DETECTOR CONNECTION

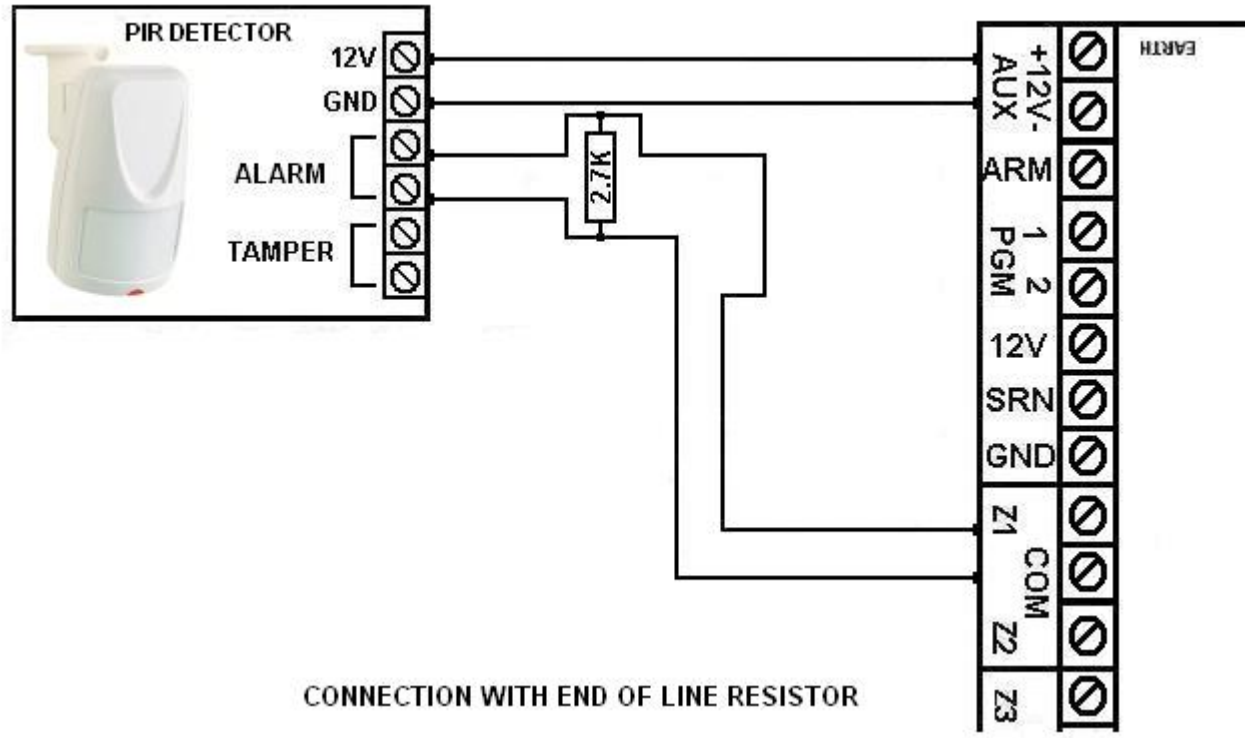
Detector alarm outputs are NC or NO. One of 2 wire output is connected to Z1, Z2 ,Z3 or ,Z4 input the other is connected COM. Supply voltage of detectors is provided by **AUX** output. **Z1, Z2, Z3, Z4** can be programmed as NO,NC, single end of line resistor or double end of line resistor. Following picture shows example of PIR detector and magnetic contact connection by using none end of line resistor connection.



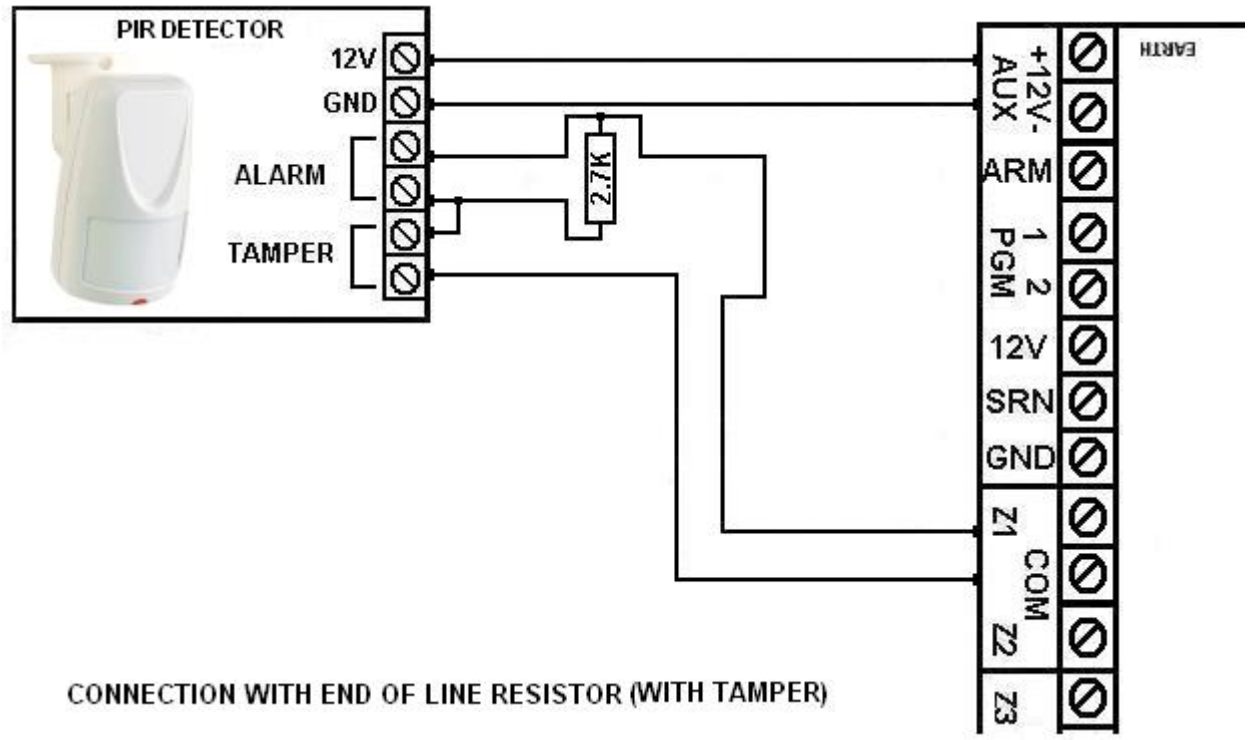
EXAMPLE DETECTOR AND MAGNETIC CONTACT CONNECTION WITHOUT RESISTOR

End of Line Resistor Connection : When single end of line resistor is used, any break in detector cable can be noticed. When double end of line resistor is used, any break in detector cable and also short circuit

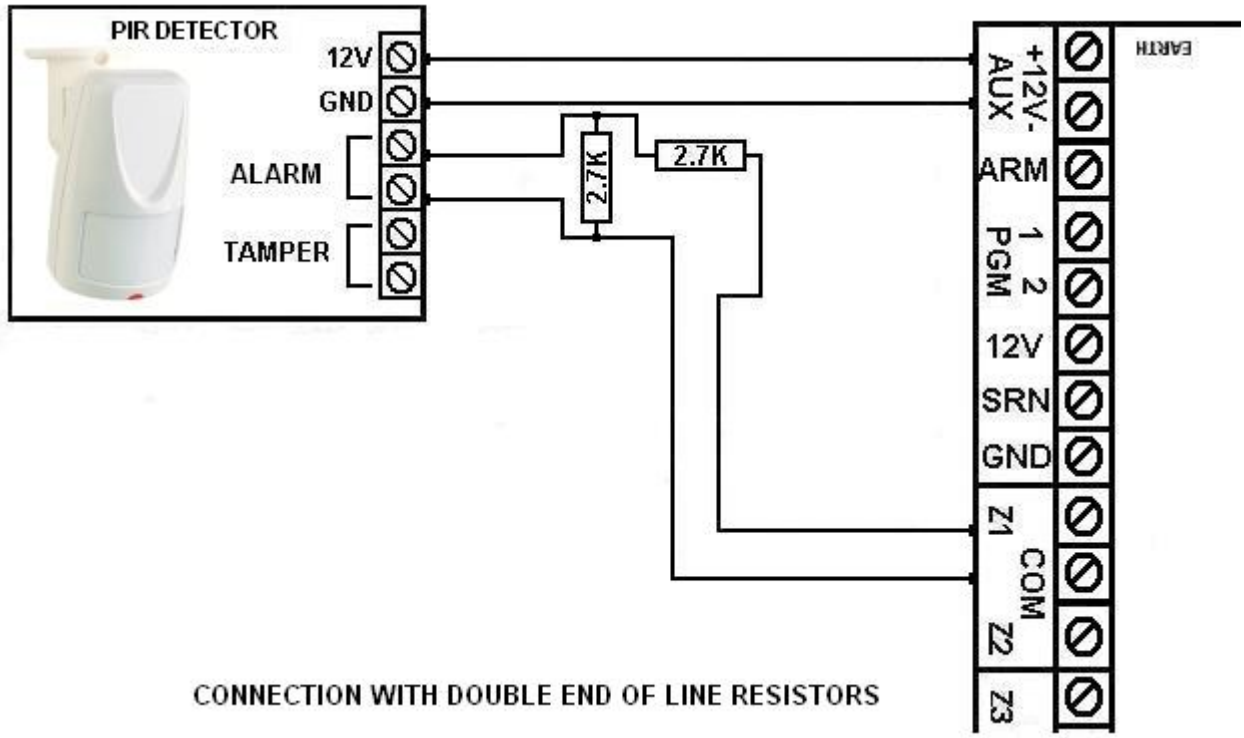
can be noticed. It is recommended to use double end of line resistor. **2.7kΩ** resistor that comes with panel can be used for end of line connection. These resistors should be connected to detector sides. If more than one detector contacts is wanted to be serially connect, end of line resistor connection can't be made, none-resistor connection should be made. Following pictures shows end of line resistor connection.



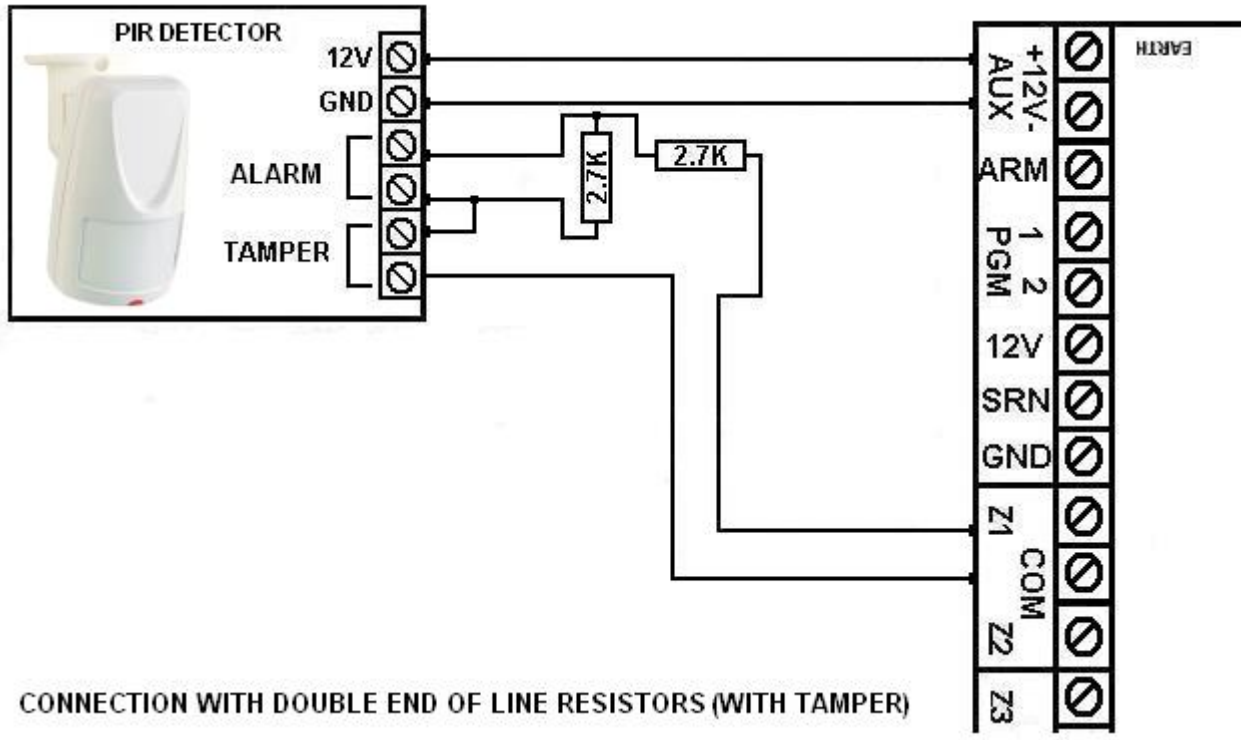
CONNECTION WITH END OF LINE RESISTOR



CONNECTION WITH END OF LINE RESISTOR (WITH TAMPER)

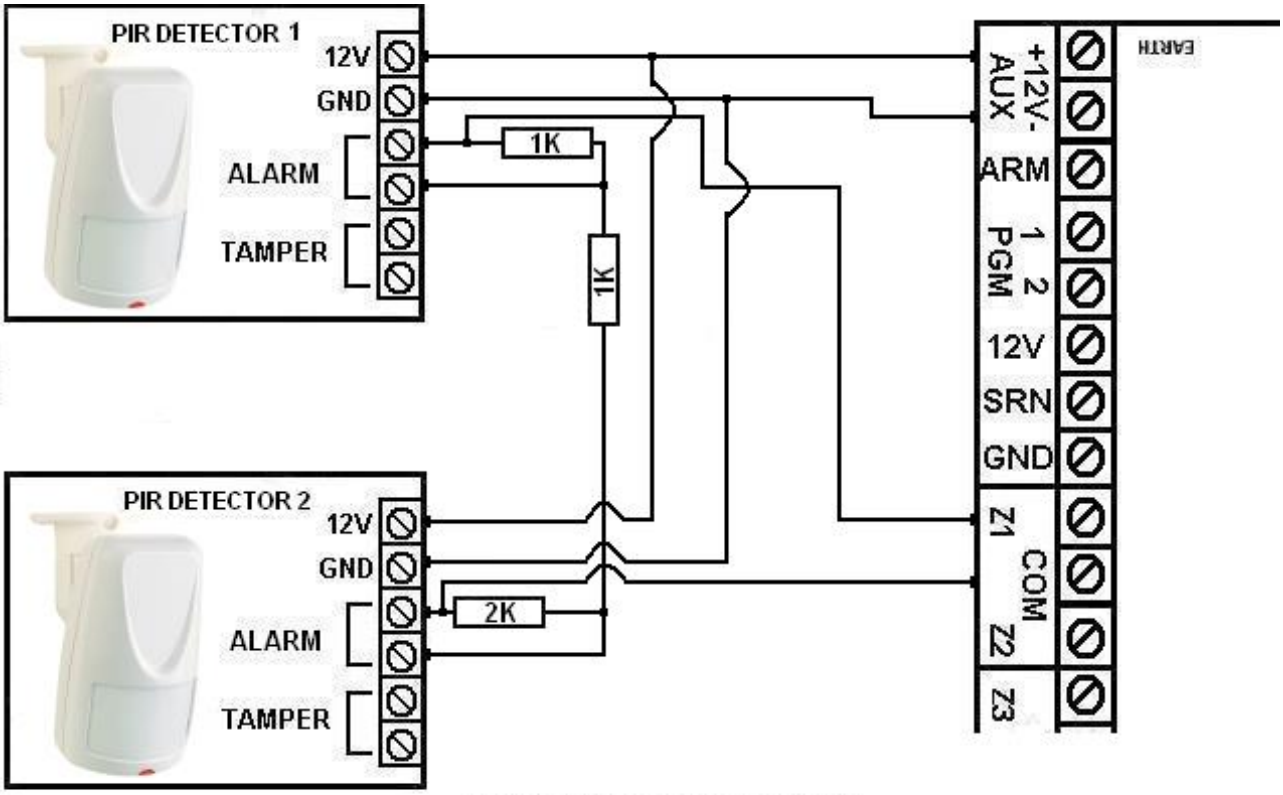


CONNECTION WITH DOUBLE END OF LINE RESISTORS

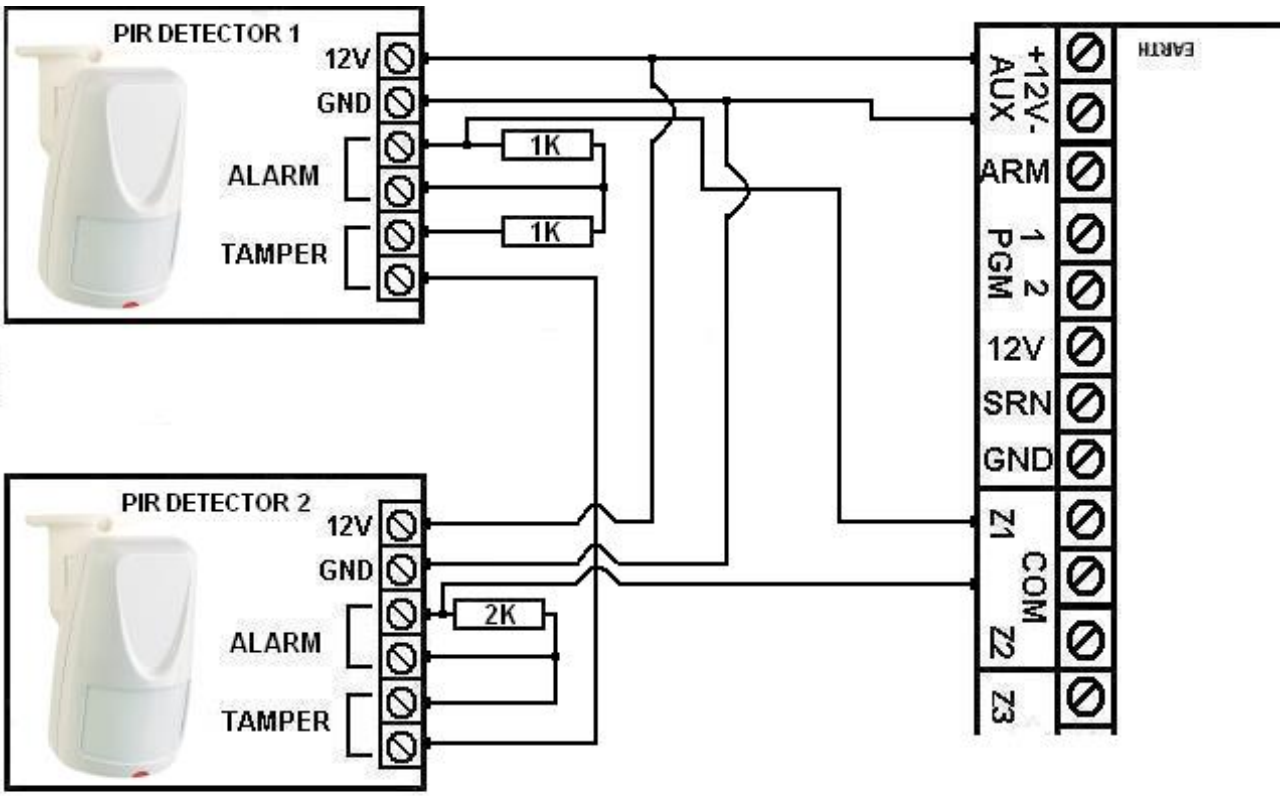


CONNECTION WITH DOUBLE END OF LINE RESISTORS (WITH TAMPER)

Zone number can be increased to 8 by zone doubling feature. You make zone doubling by using 1kΩ and 2kΩ resistors connected to zone as following picture. Zone doubling is enabled in Zone Wiring section of Installer Program. Each physical zone can be used as 2 zone by zone doubling. Contact types(NC,NO) of zones can be configured from their addresses. Zone doubling feature can't be used together with zone expansion module.



DOUBLED ZONE CONNECTION



DOUBLED ZONE CONNECTION WITH TAMPER

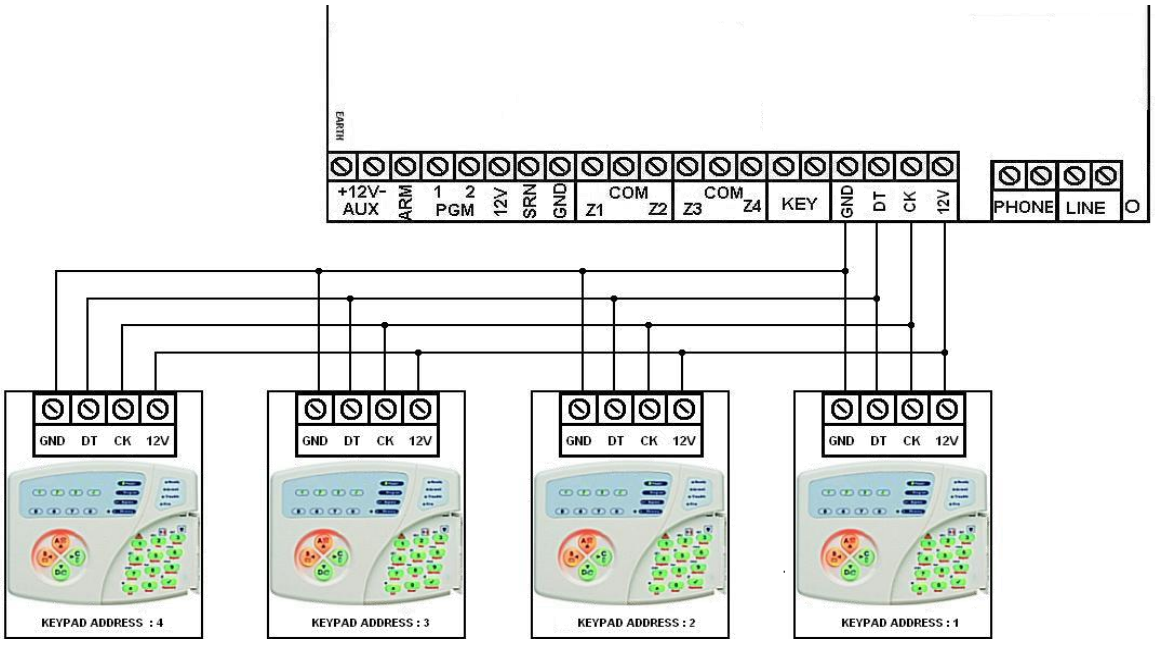
Note: If Tamper connection is made as above in single, double end of line connection or zone doubling connection, panel goes into alarm when tamper is activated. Panel only sends zone trouble code to central monitoring station if panel is not armed.
Look at Zone Wiring section in 9.3.1 for programming details.

3.4. KEYPAD CONNECTION

GND, DT, CK, 12V terminals are used to connect panel to Keypad. These terminals are connected to same terminals on Keypad. If connection couldn't made correctly, Keypad warns user. 4 Keypads can be connected to VAP404 Panel. It is recommended to connect keypad cable foil to panel GND and keypad GND. If more than one keypad is connected, enter keypad addresses firstly(Look at Assigning/Displaying Keypad Address section). Also keypads that is connected panel must be enabled from panel(Look at Keypad Permissions section).

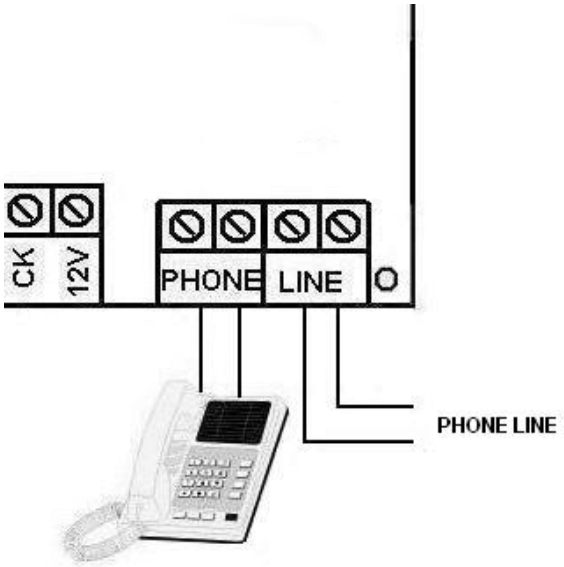
Ensure that panel isn't connected to power and DT and CK terminals aren't connected to 12V to prevent panel from breaking down.

Note: Length of connection cable between Keypad and Panel should be maximum 100 meter long.



3.5. TELEPHONE LINE CONNECTION

Telephone line connection is made to LINE terminal. If telephone line can't be connected correctly, trouble and memory leds flash on VPC108 Keypad, Trouble led lights and trouble message is seen on VPC301 Keypad. When telephone line is corrected, trouble message is cancelled. Don't connect other devices to LINE input by parallel. Other devices should be connected to PHONE output. Connection is displayed on the following picture.

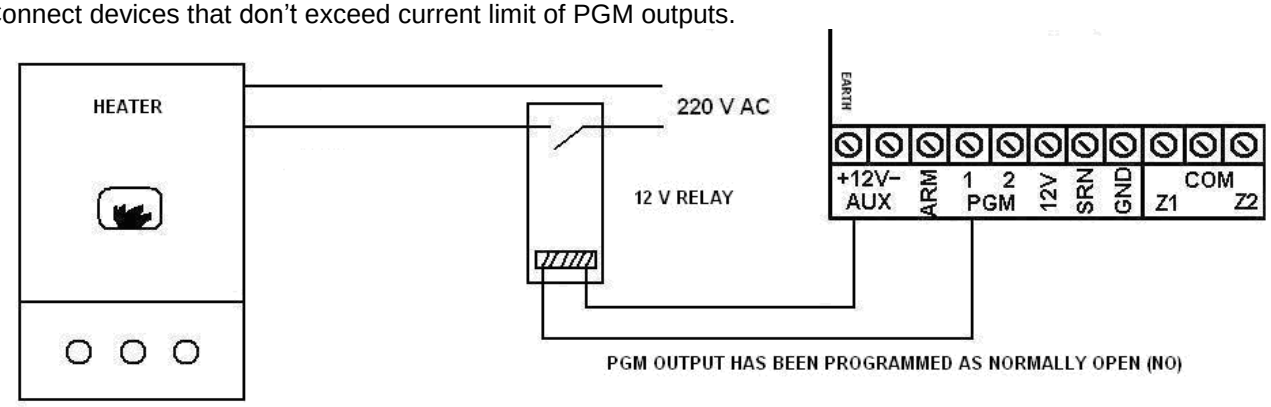


Note: If ADSL line is used, phone line connection should be connected to phone line output of SPLITTER device, otherwise some problems can occur about phone dialing.

3.6. CONNECTION OF PROGRAMMABLE OUTPUTS

VAP404 has 2 PGM outputs. These outputs can be used for kind of purposes. Detailed information is in Programming Section.

Connect devices that don't exceed current limit of PGM outputs.

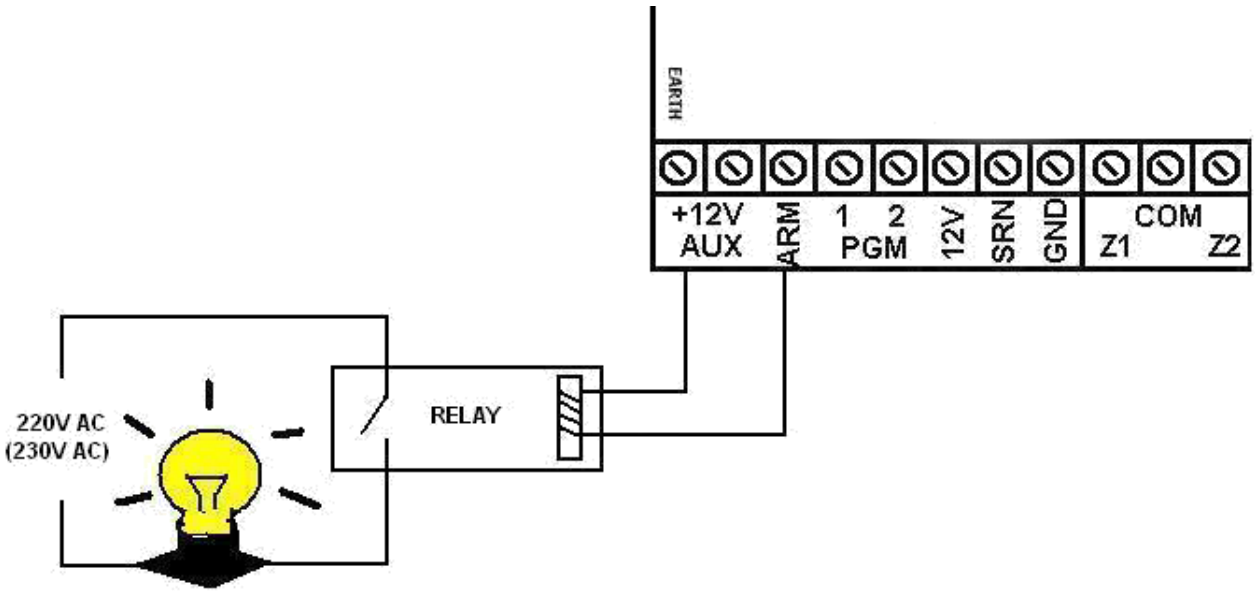


Note: You can get 4 PGM outputs by using TRM904 relay module, or can get 8 PGM outputs by using 2 TRM904 module together. Look at TRM904 guide for detailed description.

3.7. CONNECTION OF PANEL ARMED OUTPUT(ARM)

ARM output is normally output(NO contact). When panel is armed, ARM output is closed. These outputs can be used for kind of purposes. Detailed information is in Programming Section.

Connect devices that don't exceed current limit of ARM output.



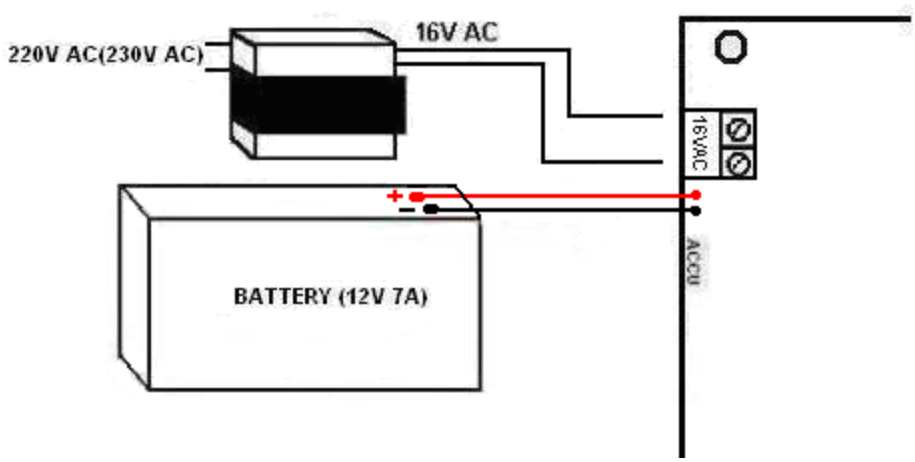
3.8. POWER CONNECTION

Connect power cables properly to its place on panel case.

NOTE : Don't forget grounding.

There is AC 220V(230V)/16V 1,2A transformer inside Panel case. Connect 16V AC to panel and then you will see green led lights on Panel. Connect battery cables to battery(be careful about poles). 2 unit 12V 7 Ah battery can be connected to Panel. When battery voltage decrease to limit values, keypad goes into energy protection mode so panel consumes lower energy.

Power terminal has a fuse of 0,125 A. If fuse breaks down, remove fuse from power terminal on panel case, put the new one.



4. QUICK & SIMPLE PROGRAMMING

This section includes quick and simple programming of VAP404.

4.1. FIRST OPERATING

Control panel connections. If all connections are correct, connect AC voltage then connect battery. After entering Date/Time, **Trouble** led is OFF on keypad if no other trouble on panel.

4.2. SIMPLE PROGRAMMING

- Enter time and date. (Trouble message disappears.)
- Enter User phone numbers, Central Monitoring Station phone numbers and account numbers.
- Enter Codes.
- Test siren.
- Test Central Monitoring Station and User Phone Dialer

Default settings ; All zones are NC (Normally closed). Z1 is entry-exit zone, Z2 is follower zone, Entry and exit delays are 15 sec. Installer code is 9999, master code is 1234, and Central Monitoring Station communication format is Contact ID.

Description of simple installation is in the following. LED means LED Keypad, LCD means LCD Keypad.

Detailed description of Keypad usage is in Programming Section. To enter address, enter 4 digit address then you see data recorded before. If you want to change data, enter new data and push √ button. On LCD Keypad. Use up-down arrow buttons to explore menu. To confirm changed data on selected item, push √ button.

- **Enter Installer Program**

LED, LCD Press 4 (Program) long 9 9 9 9 Default INSTALLER Code = 9999
Program Light lights in LED. LED Keypad and displays “INSTALLER MENU” on LCD Keypad.

- **Set Up Time**

LED 01 01 1259 √ Time = 12:59
LCD 0-BASIC SETTINGS→ CLOCK SETTING→ CLOCK SETTING
TIME: 12 59 √

- **Set Up Date**

LED 01 02 23 11 04 √ Date = 23 November 2004
LCD 0-BASIC SETTINGS→ CLOCK SETTTING→ CLOCK SETTING
DATE: 23 11 04 √

- **Enter Account Number**

LED 04 01 1 2 3 4 √ Account Number = 1234
LCD 0-BASIC SETTINGS→ CMS ACCOUNT #’S →01-CMS ACCNT NO
1 2 3 4 √

- **Enter Central Monitoring Station-1(CMS-1) Phone Number**

LED 05 01 0 216 1234567 √ Phone number = 0 216 1234 567

To add duration time, press 0 (long).
05 01 9 0 (long) 0 216 1234567 √

LCD 0-BASIC SETTINGS→ CMS PHONES→01-CMS PHONE NR
0 216 1234567 √ (First number of CMS-1)

To add duration time, press 0 (long).
9 0 (long) 0 216 1234567 √

If CMS-1 has 2 phone numbers, enter 2. phone number to 05 03(LED) or 03-CMS PHONE NR (LCD)
When CMS phone number is entered, CMS dialing(1. option in 50 01) is automatically activated by panel.

- **Enter User Phone Numbers**

LED 06 01 0 532 1234567 √ Phone number = 0532 123 45 67
06 02 ..... √
. .
. .
06 06 ..... √
To add duration time, press 0 (long).
06 01 9 0 (long) 0 532 1234567 √
LCD 0-BASIC SETTINGS→ PRIVATE PHONES→ 01-PERSON PHONE NR
0 532 1234567 √
0-BASIC SETTINGS→ PRIVATE PHONES→ 02-PERSON PHONE NR
0 532 1234567 √
. .
. .
To add duration time, press 0 (long)
9 0 (long) 0 532 1234567 √

When user phone is entered, user phone dialing(2 .option in 50 01) is automatically activated by panel.

- **Exit Installer Program**

LED, LCD Press X (Exit) (long)

- **Change Installer Code**

LED, LCD √ (long)(Password) 9 9 9 9 3 3 3 3 3 3 3 3 √ New code= 3333
Default Installer code = 9999

- **Enter Master Program**

LED, LCD 4 (long)(Program) 1 2 3 4 Default Master Code = 1234
Program Light flashes in LED Keypad and displays “MASTER MENU” on LCD Keypad.

- **Assign User Code**

5 user codes + 1 Guest code can be entered.

LED 07 01 X X X X √ 4 digit code = XXXX
07 02 ..... √
. .
. .
07 06 ..... √ (Guest code)

LCD 0-BASIC SETTINGS→ USER CODES→ 01-USER CODE
X X X X √
. .
0-BASIC SETTINGS→ USER CODES→ 06-USER CODE
X X X X √ (Guest code)

- **Assign Duress Code**

LED 07 07 X X X X √ 4 digit code = XXXX
LCD 0-BASIC SETTINGS→ USER CODES→ 07-USER CODE
X X X X √

- **Change PC Connection Code**

LED 07 08 X X X X √ Default PC Connection Code = 7777
LCD 0-BASIC SETTINGS→ USER CODES→ 08-USER CODE
X X X X √

- **Exit Master Program**

LED, LCD Press X (Exit) (long)

- **Change Master Code** Default Master Code = 1234

LED, LCD Press √ (Password) (long) 1 2 3 4 4 5 6 7 4 5 6 7 √
New Code=4567

- **Test Siren**

LED,LCD Press 8 (Test) (long) 3 1

- **Test User Phone Number**

LED, LCD First Number
Press 8 (Test) (long) 2 1

Second Number
Press 8(Test) (long) 2 2
.
.
Sixth Number
8 (long)(Test) 2 6

NOTE:
Zone settings are configured from addresses of 20 0X, 21 0X, 22 0X, 23 0X. (X = Zone Number)

Enter delays are configured from addresses of 02 0X, exit delays are configured from addresses of 03 0X (X = Partition number).

All addresses can be seen in 5.5 Programming Addresses.

- **Test Central Monitoring Station(CMS) Numbers**

LED, LCD Press 8(Test) (long) 1 1 ; CMS-1 1.phone number test
Press 8(Test) (long) 1 2 ; CMS-2 1.phone number test
Press 8(Test) (long) 1 3 ; CMS-1 2.phone number test
Press 8(Test) (long) 1 4 ; CMS-2 2.phone number test

5. PROGRAMMING SETTINGS

5.1. INTRODUCTION

VAP404 has two programming sections. One of them is **Installer Program<IP>** that is entered by installer code other is **Master Program<MP>** that is entered by master code. Installer program includes addresses, and operational settings that are used by technician who installs panel. Master program includes addresses that are interested in user settings like time/date, phone numbers, user passwords and permissions. Passwords can be reset in master or Installer program. Settings in master or installer program can be reset only in Installer program.

To programming, enter address of feature you want configure. If you wait a little, you see value in that address. At this moment you can enter new value and then press √ .

Programming addresses are classified in VAP404. Addresses are total 4 digits. First two digits of addresses indicate address group. The second two digits of addresses indicate zone no, user no, keypad no…etc.
Main configurations include addresses that are used in basic installations so installer easily installs system.

Main Settings :	01-Date/Time
	02-Partition Entry Delays
	03-Partition Exit Delays
	04-Central Monitoring Station Account Numbers
	05-Central Monitoring Station Phone Numbers
	06-User Phone Numbers
	07-User Codes
Panel Settings:	10-Panel General Settings
	11-Siren Settings
	12-Automatic Arm-Disarm
	13-PGM Settings
	14-Timer Settings
	15-Remote Access(by telephone)
	16-KEY Settings
Zone Settings:	20-Zone Wiring
	21-Zone Partition
	22-Zon Type
	23-Zon Settings
	24-Zone Trigger Delay
Keypad Settings:	30-Keypad Permissions
	31-Keypad Partitions
	99-Keypad Inner Settings
User Settings:	40-Start time
	41-Finish time
	42-Authorized days
	43-Authorized partitions
	44-User Keypads
	45-User Limitations
Communicator-Dialer:	50-General Settings
	51-Reporting Settings
	52-53-Central Monitoring Station Event Codes
Optional Modules:	60-RF Remote Controller Settings
	61-Zone Expander Module Settings

5.2. ENTERING / EXITING INSTALLER & MASTER PROGRAM

Press **Program** button until you hear long beep and enter installer code then device enters “Installer Program”. Program led lights and **Ready** light flashes in LED Keypad. LCD Keypad displays “INSTALLER MENU”.

4 (Program)(long) 9 9 9 9 Default Installer Code = 9999

Press **Program** button until you hear long beep and enter master code then device enters “Installer Program”. Program and **Ready** light flashes in LED Keypad. LCD Keypad displays “MASTER MENU”.

4 (Program)(long) 1 2 3 4 Default Master Code = 1234

To exit programming mode, press **Exit** button long until you hear long beep then **Program** light becomes OFF and LCD screen returns stand by mode.

X (Exit) (long)

Panel exits Programming mode if you don’t press any button within 3 minutes.

5.3. CHANGING CODES

User can simply change codes(except Duress code and PC connection code) by entering following in Standby mode.

√ (Password) (long) XXXX YYYY YYYY √

XXXX = old code, YYYY = new code

5.4. ASSIGNING / DISPLAYING KEYPAD ADDRESS

Default Keypad Address is **“1”**. If more than one keypad will be used, Keypad addresses must be different each other. Do following to change Keypad address ;

4 (long) Address √ (Address = 1, 2, 3, 4)

Do following to see Keypad address ;

6 (long) 4

Keypad displays its address by zone lights on LED Keypad. LCD Keypad displays its address on screen.

5.5. PROGRAMMING ADDRESSES

ADDRESS	FUNCTION	VALUE	DEFAULT VALUE	ENTERED VALUE	PAGE & PROGRAM IP:Installer MP:Master
01 01	**Time**	HH MM HH=hour , MM= minute	00:00		**38** IP, MP
01 02	**Date**	DD MM YY DD=day, MM=month, YY=year(last 2 digit)	00.00.00		**38** IP, MP
01 03	**Day of Week**	D , D=1~7, 1=Monday.....,7=Sunday,(only readable)	---		**39** IP, MP
02 01 **02 02** **02 03** **02 04**	**Entry Delays** **A Partition** **B Partition** **C Partition** **D Partition**	0~255 seconds	15 0 0 0		**39**, IP Look at pg. 34 for SPT
03 01 **03 02** **03 03** **03 04**	**Exit Delay** **A Partition** **B Partition** **C Partition** **D Partition**	0~255 seconds	15 0 0 0		**39** IP

04 01 **04 02**	**Account No** **Central M. Station-1(CMS-1)** **Central M. Station-2(CMS-2)**	AAAA = 4 digit number	0000 0000		**40** IP
05 01 **05 02** **05 03** **05 04**	**CMS Phone numbers** **CMS-1** **CMS-2** **Secondary number of CMS-1** **Secondary number of CMS-2**	TTTTTTTTTTTTTT max. 15 digit phone number (*) CMS dialing is enabled(1. option in 50 01) automatically when phone number is entered.	--- ---		**41** IP
06 01 **06 02** **06 03** **06 04** **06 05** **06 06**	**User Phone Numbers** **User Phone-1** **User Phone-2** **User Phone-3** **User Phone-4** **User Phone-5** **User Phone-6**	TTTTTTTTTTTTTT max. 15 digit phone number (*) User Phone Dialer is enabled(2. option in 50 01) automatically when phone number is entered.	--- --- --- --- ---		**41** IP, MP
07 01 **07 02** **07 03** **07 04** **07 05** **07 06** **07 07** **07 08**	**User Codes** **User Code-1** **User Code-2** **User Code-3** **User Code-4** **User Code-5** **Guest Code** **Duress Code** **PC Connection Code**	xxxx = 4 digit code; If "0000" is entered, that user becomes disabled.	0000 0000 0000 0000 0000 0000 0000 7777		**42** MP
10 01	**Panel Settings**	(ON/OFF) 1. option= Smart Partition Technology Enable/Disable 2. option= Quick Arm Enable/Disable 3. option= Auto Siren Test Enable/Disable 4. option= Arm/Disarm from Foreign Keypad Enable/Disable 5. option= Extendable Exit Delay Enable/Disable 6. option= Double Hit Enable/Disable 7. option= Daylight Saving Enable/Disable	3=ON 5=ON 7=ON		**43** IP Look at pg. 34 for SPT
10 02	**Output Types**	1.option= ARM NC/NO (ON= NC, OFF= NO) 2. option= PGM1 NC/NO 3. option= PGM2 NC/NO 5. option= SRN NC/NO (positive/negative trigger)	1=OFF 2=OFF 3=OFF 5=OFF		**43** IP
10 03	**Automatic Bypassed Partitions**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition	-		**44** IP Look at pg. 34 for SPT
10 04	**Reset Types**	1. option= Reset Codes 2. option= Reset Panel Settings	-		**44** IP, MP IP
ADDRESS	**FUNCTION**	**VALUE**	**DEFAULT VALUE**	ENTERED VALUE	**PAGE & PROGRAM** **IP:Installer** **MP:Master**
10 06	**Reset Enable/Disable**	1. option= Resetting Codes Enable/Disable 2. option= Resetting Panel Settings Enable/Disable	1= ON 2= ON		**44** IP
10 07	**ARM Partitions**	1. option = A Partition 2. option = B Partition 3. option = C Partition 4. option = D Partition	A, B, C, D		**45** IP Look at pg. 34 for SPT
10 08	**AC Fail Call Delay**	0~60 minutes	15		**45** IP
10 09	**Cross Zone Timer**	0~255 seconds	60		**45** IP
11 01	**Siren Partitions**	1. option = A Partition 2. option = B Partition 3. option = C Partition 4. option = D Partition	A, B, C, D		**46** IP Look at pg. 34 for SPT
11 02	**Siren Cut off Time**	2~255 minutes	5 minutes		**46** IP
12 01	**Automatic ARM Partitions**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition Automatic Arm is disabled if no partition is selected	No partition is selected		**46** IP, MP Look at pg. 34 for SPT
12 02	**Automatic ARM Days**	1. Option = Monday 2. Option = Tuesday 3. Option = Wednesday 5. option = Friday 6. option = Saturday 7. option = Sunday	All days are		**47** IP, MP

		4. option = Thursday	selected		
12 03	**Automatic ARM Time**	HH MM HH= hour, MM= minute	00:00		**47** IP, MP
12 04	**Automatic Disarm Partitions**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition Automatic Disarm is disabled if no partition is selected.	No partition is selected		**47** IP, MP Look at pg. 34 for SPT
12 05	**Automatic Disarm Days**	1. option = Monday 2. option = Tuesday 3. option = Wednesday 4. option = Thursday 5. option = Friday 6. option = Saturday 7. option = Sunday	All days are selected		**48** IP, MP
12 06	**Automatic Disarm Time**	HH MM HH=hour, MM=minute	00:00		**48** IP, MP
12 07	**Automatic Arm Partitions on no Activity**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition This feature is disabled, if no partition is selected.	No partition is selected		**48** IP Look at pg. 34 for SPT
12 08	**No Activity Time (for Automatic Arm)**	5~255 minutes	30 minutes		**49** IP
13 01 **13 03** 13 05 13 07 13 09 13 11 13 13 13 15	**PGM1 Usage Type** **PGM2 Usage Type** PGM3 Usage Type(*) PGM4 Usage Type PGM5 Usage Type PGM6 Usage Type PGM7 Usage Type PGM8 Usage Type	0 = Free 1 = PGM is active while selected zones are active 2 = PGM is active while selected zones are active 3 = PGM is activated when selected partitions are armed. 4 = Fire siren 5 = PGM resets fire detector when fire alarm is ended. 6 = Siren 7 = PGM is active on selected troubles 8 = PGM controls magnetic door (Access Control). 9 = Timer controls PGM (**) 10 = Random PGM ON/OFF 11= On arm 12= On disarm 13= Control with remote control button 14= Alarm type indicator (*) VAP404 has 3 onboard PGM outputs. You can get 4 PGM outputs by using TRM904 module, or can get 8 PGM outputs by using 2 TRM904 module together. Look at TRM904 guide for detailed description. (**) 9. option is valid for the first four PGM's(PGM1 to PGM4)	0=Closed		**49, 50** IP Look at pg. 34 for SPT
13 02 **13 04** 13 06 13 08 13 10 13 12 13 14 13 16	**PGM1 Parameter** **PGM2 Parameter** PGM3 Parameter (*) PGM4 Paremeter PGM5 Paremeter PGM6 Paremeter PGM7 Paremeter PGM8 Paremeter	0~255, (*) VAP404 PLUS has 2 PGM outputs. You can get 4 PGM outputs by using TRM904 module, or can get 8 PGM outputs by using 2 TRM904 module together. Look at TRM904 guide for detailed description.	0		**49** IP **50**
ADDRESS	**FUNCTION**	**VALUE**	**DEFAULT VALUE**	ENTERED VALUE	**PAGE & PROGRAM** **IP:Installer** **MP:Master**
14 01 **14 04**	**Timer1 Setting** **Timer2 Setting**	1. option= PGM1 Control Enable/Disable 2. option= PGM1 State (ON/OFF) 3. option= PGM2 Control Enable/Disable 4. option= PGM2 State (ON/OFF) 5. option= PGM3 Control Enable/Disable(*) 6. option= PGM3 State (ON/OFF) 7. option= PGM4 Control Enable/Disable 8. option= PGM4 State (ON/OFF) (*) VAP408 PLUS has 2 PGM outputs. You can get 4 PGM outputs by using TRM904 module, or can get 8 PGM outputs by using 2 TRM904 module together. Look at TRM904 guide for detailed description.	-		**51** IP, MP **52**
14 02 **14 05**	**Timer1 Days** **Timer2 Days**	1. option = Monday 2. option = Tuesday 3. option = Wednesday 4. option = Thursday 5. option = Friday 6. option = Saturday 7. option = Sunday	All days are selected		**52** IP, MP
14 03 **14 06**	**Time of Timer1** **Time of Timer2**	HH MM HH=hour, MM=minute	00:00		**52** IP, MP **53**
15 01	**Remote Control**	(ON/OFF) 1. option= Remote control by phone Enable/Disable 2. option= Remote control by PC(modem) Enable/Disable* * This feature is only active if modem module is connected to VAP404 panel.	Closed		**53** IP, MP

15 02	**Answer Ring Count**	1~20 times	5 times		**53** IP, MP
16 01	**KEY Settings**	1. option= Enable(ON)/ Disable(OFF) 2. option= Pulse/ Continues Contact	Closed, Pulse		**53, 54** IP
16 02	**KEY Partitions**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition	A, B, C, D		**54** IP Look at pg. 34 for SPT
20 01 **20 02** **20 03** **20 04** **20 05-08**	**Zone Wiring** **Z1** **Z2** **Z3** **Z4** **Z5-Z8**	1. option= NC/NO (ON/OFF) 2. option= Single end of line resistor, Double zone ON/OFF * 3. option= Double end of line Resistor, Double zoneON/OFF * 4. option= Zone Enable/Disable (*)2, 3 must not be selected if no end of line resistor will be used. 2, 3 must be selected in zone doubling. You don't need to activate zone doubling feature of Z5, Z6, Z7, Z8 while using zone doubling. Zone doubling feature can't be used together with zone expansion module.	1= ON 4= ON		**54** IP **55**
21 01 **21 02** **21 03** **21 04** **21 05-08**	**Zone Partitions** **Z1** **Z2** **Z3** **Z4** **Z5-Z8**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition Note: If S.P.T. (Smart partition Technology) is selected, these settings can be ignored.	A		**55** IP Look at pg. 34 for SPT
22 01 **22 02** **22 03** **22 04** **22 05-08**	**Zone Type** **Z1** **Z2** **Z3** **Z4** **Z5-Z8**	0 = Free 1 = Door 2 = Window 3 = Interior 4 = Exterior 5 = 24 Hour 6 = Fire 7 = Panic 8 = Duress 9 = Tamper(Sabotage) 10 = Medical 11 = Custom	Z1 : 1 Z2 : 3 Z3 : 3 Z4 : 3 Z5-Z8 : 3		**56** IP
23 01 **23 02** **23 03** **23 04** **23 05-08**	**Zone Extra Settings** **Z1** **Z2** **Z3** **Z4** **Z5-Z8**	(ON/OFF) 1. option= End door YES/NO 2. option= Follower Zone YES/NO 3. option= Entry/Exit Zone YES/NO 4. option= Silent Zone YES/NO 5. option= Can not be bypassed manually YES/NO 6. option= Can not be Auto bypassed YES/NO 7. option= Cross Zone YES/NO	Z1: 3 Z2: 2 Z3: - Z4: - Z5-Z8: -		**57** IP
ADDRESS	**FUNCTION**	**VALUE**	**DEFAULT VALUE**	ENTERED VALUE	**PAGE & PROGRAM** **IP:Installer** **MP:Master**
24 01 **24 02** **24 03** **24 04** **24 05-08**	**Zone Trigger Delay** **Z1** **Z2** **Z3** **Z4** **Z5-Z8**	2~255, time = value*30 ms	15		**58** IP
30 01 **30 02** **30 03** **30 04**	**Keypad Permissions** **1. Keypad** **2. Keypad** **3. Keypad** **4. Keypad**	1. option= Keypad Enable/Disable 2. option= Quick Arm Enable/Disable 3. option= Arm Enable/Disable 4. option= Disarm Enable/Disable 5. option= Programming permission Enable/Disable 6. option= Access Control ON/OFF 7.option= Sabotage Alarm Enable/Disable	1.keypad 1,2,3,4,5 Other keypads 2,3,4		**58** IP
31 01 **31 02** **31 03** **31 04**	**Keypad Partitions** **1. Keypad** **2. Keypad** **3. Keypad** **4. Keypad**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition	A, B, C, D		**59** IP Look at pg. 34 for SPT

40 01 **40 02** **40 03** **40 04** **40 05** **40 06**	**User Start Time** **User-1** **User-2** **User-3** **User-4** **User-5** **Guest**	HH MM , HH=hour, MM=minutes	00:00		**60** MP
41 01 **41 02** **41 03** **41 04** **41 05** **41 06**	**User Finish Time** **User-1** **User-2** **User-3** **User-4** **User-5** **Guest**	HH MM , HH=hour, MM=minutes	23:59		**60** MP
42 01 **42 02** **42 03** **42 04** **42 05** **42 06**	**User Days** **User-1** **User-2** **User-3** **User-4** **User-5** **Guest**	1. option = Monday 2. option = Tuesday 3. option = Wednesday 4. option = Thursday 5. option = Friday 6. option = Saturday 7. option = Sunday	All days are selected		**61** MP
43 01 **43 02** **43 03** **43 04** **43 05** **43 06**	**User Partitions** **User-1** **User-2** **User-3** **User-4** **User-5** **Guest**	1. option= A Partition 2. option= B Partition 3. option= C Partition 4. option= D Partition	A, B, C, D		**62** MP Look at pg. 34 for SPT
44 01 **44 02** **44 03** **44 04** **44 05** **44 06**	**User Keypads** **User-1** **User-2** **User-3** **User-4** **User-5** **Guest**	1. option= 1. Keypad 2. option= 2. Keypad 3. option= 3. Keypad 4. option= 4. Keypad	1=ON 2=ON 3=ON 4=ON		**62** MP
45 01 **45 02** **45 03** **45 04** **45 05** **45 06**	**User Limitations** **User-1** **User-2** **User-3** **User-4** **User-5** **Guest**	1. option= User can not Arm 2. option= User can not Disarm 3. option= One time usable code(only for Guest) 4. option= Daily Code(only for Guest) 5. option= User can not make Bypass	1=OFF 2=OFF 3=OFF 4=OFF * 5=OFF * 4.opt=ON in 45 06		**63** MP
ADDRESS	**FUNCTION**	**VALUE**	**DEFAULT VALUE**	ENTERED VALUE	**PAGE & PROGRAM** **IP:Installer** **MP:Master**
50 01	**Central Monitoring Station(CMS) & User Phone Dialer Settings**	1. option= Communicator Enable/Disable (*) (Central Monitoring Station Dialer) 2.option= Dialer Enable/Disable (**) (User Phone Dialer) 3. option= - 4. option= Cancel calls on disarm ON/OFF 5. option= Alarm on Tel. Line Fail ON/OFF 6. option= Confirm by single button ON/OFF 7. option= Terminate on confirm ON/OFF 8. option= Make Alarm silence on confirm ON/OFF (*) 1. option is enabled automatically when any of communicator number(05 01 ~ 05 04) is entered. (**) 2. option is enabled automatically when any of dialer number(06 01 ~ 06 06) is entered.	4=ON		**64** IP
50 02	**Dial Attempt**	1~15 times	3 times		**64** IP
50 03	**CMS Answer Wait Time**	10~60 seconds	30 seconds		**64** IP

50 04	**CMS Periodic Test Report Range**	1~48 hour	24 hours		**65** IP
50 05	**CMS Periodic Report Time**	HH MM HH: Hour, MM:Minute	00:00		**65 IP MP**
50 06	**Redialing Pause**	1~30 sec.	3 sec.		**65** IP
50 07 **50 08**	**Communication Format** **Central M. Station-1** **Central M. Stat.ion-2**	0=ContactID 1=4+2, 4+1, 3+2, 3+1 (DTMF)	0		**65** IP **66**
50 09 **50 10**	**4+2, etc Features** **Central M. Station-1** **Central M. Stat.ion-2**	(ON/ OFF) 1. option= Account No 3 Digit / 4 Digit 2. option= Code Digit 1 Digit / 2 Digit 3. option= Communication Frequency 20 Baud / 10 Baud	- - -		**66** IP
50 11 **50 12** **50 13** **50 14** **50 15**	**Central M. Station to which messages will be sent.** **Out of Partition** **A Partition** **B Partition** **C Partition** **D Partition**	1. option= Call Central Stat. 1 2. option= Call Central Stat. 2 S.P.T. uses settings of 50 11	1 = ON		**67** IP Look at pg. 34 for S.P.T
50 16 **50 17** **50 18** **50 19** **50 20**	**User Phones to which messages will be sent.** **Out of Partition** **A Partition** **B Partition** **C Partition** **D Partition**	1.option= Call User number-1 S.P.T use s settings 2.option= Call User number-2 of 50 16 3.option= Call User number-3 4.option= Call User number-4 5.option= Call User number-5 6.option= Call User number-6	All options are selected		**67** IP Look at pg. 34 for S.P.T
ADDRESS	**FUNCTION**	**VALUE**	**DEFAULT VALUE**	ENTERED VALUE	**PAGE & PROGRAM** **IP:Installer** **MP:Master**

	Event Logs				
51 01	**1. Intruder Alarm**		1,2,3,5		
51 02	**2. Panic Alarm**		1,2,3,5		
51 03	**3. Fire Alarm**		1,2,3,5		
51 04	**4. Duress Alarm**		1,2,3,5		
51 05	**5. Sabotage Alarm**		1,2,3,5		
51 06	**6. Medical Alarm**		1,2,3,5		
51 07	**7. Duress Disarm**		1,2,5		
51 08	**8. Disarm on Alarm**		1,5		
51 09	**9. Zone Trouble**		1,5		
51 10	**10. AC Fail**		1,3,5		
51 11	**11. Intrusion Verifier**	1. option= Call Central Monitoring Station	1,5		
51 12	**12. Cross Zone Fault**	2. option= Call User Phone	1,5		
51 13	**13. Battery Low**	3. option= Call Central Monitoring Station for Restore	1,3,5		
51 14	**14. Line Fail**	4. option= Call User Phone for Restore	1,3,5		
51 15	**15. Battery Fail**	5. option= Record to Memory	1,3,5		**68** IP
51 16	**16.Communic. Fail (1)**		5		**69**
51 17	**17.Special Arm/Disarm**		1,3,5		**70**
51 18	**18. Arm/Disarm**	(1) Communication Fail is only recorded to Memory	1,3,5		
51 19	**19. Bypassed**		1,3,5		
51 20	**20. Entered Program**	(2) Restores no 33~64 is displayed in event log memory if event is selected to be recorded to memory.	1,5		
51 21	**21. Exited Program**		1,5		
51 22	**22. Periodic Report**		1		
51 23	**23. Panel Restarted**		5		
51 24	**24. Manual Report**		---		
51 25	**25. ---**		---		
51 26	**26. ---**		---		
51 27	**27. ---**		---		
51 28	**28. ---**		---		
51 29	**29. ---**		---		
51 30	**30. Custom Zone Alarm**		1,2,5		
51 31	**31. ---**		---		
51 32	**32. Defaults Loaded**		5		
	33-64. Restore (2)				
	Contact ID				
	Event Logs				
	1. Intruder Alarm				
52 01	**2. Panic Alarm**		1130		
52 02	**3. Fire Alarm**		1120		
52 03	**4. Duress Alarm**		1110		
52 04	**5. Sabotage Alarm**		1120		
52 05	**6. Medical Alarm**		1144		
52 06	**7. Duress Disarm**		1100		
52 07	**8. Disarm on Alarm**		1121		
52 08	**9. Zone Trouble**		1406		
52 09	**10. AC Fail**		1372		
52 10	**11. Intrusion Verifier**		1301		
52 11	**12. Cross Zone Fault**	CCCC 4 digits Event Code	1139		
52 12	**13. Battery Low**		1378		
52 13	**14. Line Fail**	Note:	1302		
52 14	**15. Battery Fail**	(1) Communication Fail is only recorded to Memory.	1351		
52 15	**16.Communic. Fail (1)**		1302		
52 16	**17.Special Arm/Disarm(2)**	(2) Special Arm/Disarm codes sent to Central Monitoring Station on Quick Arm, Arming on no activity, Automatic Arm/Disarm, Arm/Disarm by key, Arm/Disarm by Remote Controller	0000		**71** IP
52 17	**18. Arm/Disarm**		1400		**72**
52 18	**19. Bypassed**		1402		
52 19	**20. Entered Program**		1570		
52 20	**21. Exited Program**		1627		
52 21	**22. Periodic Report**	(3) Restores no 33~64 is displayed in event log memory if event is selected to be recorded to memory.	1628		
52 22	**23. Panel Restarted**		1602		
52 23	**24. Manual Report**		1305		
52 24	**25. ---**		1601		
52 25	**26. ---**		0000		
52 26	**27. ---**		0000		
52 27	**28. ---**		0000		
52 28	**29. ---**		0000		
52 29	**30. Custom Zone Alarm**		0000		
52 30	**31. ---**		0000		
52 31	**32. Defaults Loaded**		0000		
52 32	**33-64. Restore (3)**		0000		
ADDRESS	**FUNCTION**	**VALUE**	**DEFAULT VALUE**	ENTERED VALUE	**PAGE & PROGRAM** **IP:Installer** **MP:Master**

	4+2, etc **Event Codes** **Event Longs**				
53 01	**1. Intruder Alarm**	CC = 1 or 2 digit Event Code Note: (1) Communication Fail is only recorded to Memory. (2) Special Arm/Disarm code is sent to Central Monitoring Station on Quick Arm, Arming on no activity, Automatic Arm/Disarm, Arm/Disarm by key, Arm/Disarm by Remote Controller			**72** IP **73** **74**
53 02	**2. Panic Alarm**				
53 03	**3. Fire Alarm**				
53 04	**4. Duress Alarm**				
53 05	**5. Sabotage Alarm**				
53 06	**6. Medical Alarm**				
53 07	**7. Duress Disarm**				
53 08	**8. Disarm on Alarm**				
53 09	**9. Zone Trouble**				
53 10	**10. AC Fail**				
53 11	**11. Intrusion Verifier**				
53 12	**12. Cross Zone Fault**				
53 13	**13. Battery Low**				
53 14	**14. Line Fail**				
53 15	**15. Battery Fail**				
53 16	**16.Communic. Fail (1)**				
53 17	**17.Special Arm/Disarm(2)**				
53 18	**18. Arm/Disarm**				
53 19	**19. Bypassed**				
53 20	**20. Entered Program**				
53 21	**21. Exited Program**				
53 22	**22. Periodic Report**				
53 23	**23. Panel Restarted**				
53 24	**24. Manual Report**				
53 25	**25. ---**				
53 26	**26. ---**				
53 27	**27. ---**				
53 28	**28. ---**				
53 29	**29. ---**				
53 30	**30. Custom Zone Alarm**				
53 31	**31. ---**				
53 32	**32. Defaults Loaded**				
53 33	**33. Burglar Alarm Restore**				
53 34	**34. Panic Alarm Restore**				
53 35	**35. Fire Alarm Restore**				
53 36	**36. Duress Alarm Restore**				
53 37	**37. Sabotage Alarm Restore**				
53 38	**38. Medical Alarm Restore**				
53 39	**39. Disarm at Duress**				
53 40 – 41	**40-41. ----**				
53 42	**42. Power Restore**				
53 43 – 44	**43-44. ----**				
53 45	**45. Battery Restore**				
53 46	**46. Telephone Line Restore**				
53 47	**47. Battery Connected**				
53 48	**48. ---**				
53 49	**49. Custom Armed**				
53 50	**50. Alarm Armed**				
53 51	**51. Bypass Cancelled**				
53 52 – 64	**52-64. ----**				
60 01	**Remote Control Module Setting**	1.option = Enabled(ON)/Disabled(OFF) 2.option = Siren Alarm on Panic ON/OFF	1= OFF 2= OFF		**75** IP
61 01	**Zone Expansion Module Setting**	1. option= Enabled(ON)/Disabled(OFF)	Disabled		**75** IP

5.6. DEFAULT CONFIGURATIONS

USERS		Master	1.User	2.User	3.User	4.User	5.User	Guest	Duress	PC Connection	Installer
Codes	Address	-	07 01	07 02	07 03	07 04	07 05	07 06	07 07	07 08	-
	Value	1234	0000	0000	0000	0000	0000	0000	0000	7777	9999
Start Time	Address	-	40 01	40 02	40 03	40 04	40 05	40 06	-	-	-
	Value	-	00:00	00:00	00:00	00:00	00:00	00:00	-	-	-
End Time	Address	-	41 01	41 02	41 03	41 04	41 05	41 06	-	-	-
	Value	-	23:59	23:59	23:59	23:59	23:59	23:59	-	-	-
Days	Address	-	42 01	42 02	42 03	42 04	42 05	42 06	-	-	-
	Value	-	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	-	-	-
Partitions	Address	-	43 01	43 02	43 03	43 04	43 05	43 06	-	-	-
	Value	-	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D	-	-	
Keypad	Address	-	44 01	44 02	44 03	44 04	44 05	44 06	-	-	-
	Value	-	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	-	-	-
Limitations	Address	-	45 01	45 02	45 03	45 04	45 05	45 06	-	-	-
	Value	-	-	-	-	-	-	4	-	-	-

ZONES		Zone Wiring	Zone Partition	Type	Zone Extra Options	Zone Trigger Delay
1. Zone	Address	20 01	21 01	22 01	23 01	24 01
	Value	1, 4	1 (A)	1 (Door)	3	15
2. Zone	Addrress	20 02	21 02	22 02	23 02	24 02
	Value	1, 4	1 (A)	3 (Interior)	2	15
3. Zone	Address	20 03	21 03	22 03	23 03	24 03
	Value	1, 4	1 (A)	3 (Interior)	-	15
4. Zone	Address	20 04	21 04	22 04	23 04	24 04
	Value	1, 4	1 (A)	3 (Interior)	-	15
5.~8. Zone(*)	Address	20 05~08	21 05~08	22 05~08	23 05~08	24 05~08
	Value	1 ,4	1 (A)	3 (Interior)	-	15

ENTERY-EXIT DELAYS		A Partition	B Partition	C Partition	D Partition
Partition Enter Delays	Address	02 01	02 02	02 03	02 04
	Value	15 seconds	0 second	0 second	0 second
Partition Exit Delays	Address	03 01	03 02	03 03	03 04
	Value	15 seconds	0 second	0 second	0 second

MAIN CONFIGURATIONS	Time	Date	Daylight Saving	Reset	Reset Permissions	Cross Zone Detection Time
Address	01 01	01 02	7. option (10 01)	10 04	10 06	10 09
Value	00:00	00/00/00	ON	-	1, 2	0 Sec

SIREN (SRN)	Automatic Siren Test	Output (Trigger) Type	Partition	Cut off Time
Address	3. option (10 01)	5. option (10 02)	11 01	11 02
Value	OFF	NO	A,B,C,D	5 minutes

ARM SETTINGS	S.P.T. Smart Partition Technology	Quick Arm	Foreign Keypad	Extendable Exit Delay	Automatic Bypassed Partitions
Address	1.option(10 01)	2.option(10 01)	4.option(10 01)	5.option(10 01)	10 03
Value	OFF	ON	OFF	ON	-

AUTOMATIC ARM-DISARM		Partition Selection	Day	Time
ARM	Address	12 01	12 02	12 03
	Value	Partitions are not selected	1,2,3,4,5,6,7	00:00
DISARM	Address	12 04	12 05	12 06
	Value	Partitions are not selected	1,2,3,4,5,6,7	00:00
AUTOMATIC ARM PARTITIONS ON NO ACTIVITY		Partition Selection	No Activity Time	
KURMA	Address	12 07	12 08	
	Value	Partitions are not selected	30 minutes	

REMOTE CONTROL		PHONE REMOTE CONTROL	PC-MODEM REMOTE CONTROL(*)
Enable / Disable	Address	1. option (15 01)	2. option (15 01)
	Value	Closed	Closed
Answer Ring Count	Address	15 02	
	Value	5	

(*)This feature is only active if modem module is connected to VAP404 panel.

ARM/DISARM (BY KEY INPUT)		KEY Input
Setting	Address	16 01
	Value	OFF, Pulse mod
Partition	Address	16 02
	Value	A,B,C,D

PGM OUTPUTS		PGM 1	PGM 2
Output Type	Address	2.option (10 02)	3. option(10 02)
	Value	NO	NO
Usage	Address	13 01	13 03
	Value	0 (Closed)	0 (Closed)
Parameter	Address	13 02	13 04
	Value	0	0

ARM Output		
Output Type	Address	1. option(10 02)
	Value	NO
Partitions	Address	10 07
	Value	A,B,C,D

TIMER		1. Timer	2. Timer
Settings	Address	14 01	14 04
	Value	OFF	OFF
Days	Address	14 02	14 05
	Value	1,2,3,4,5,6,7	1,2,3,4,5,6,7
Time	Address	14 03	14 06
	Value	00:00	00:00

KEYPADS		1.Keypad	2.Keypad	3.Keypad	4.Keypad
Enable / Disable	Address	1.option(30 01)	1. option(30 02)	1.option(30 03)	1.option(30 04)
	Value	Enable	Disable	Disable	Disable
Quick Arm	Address	2.option(30 01)	2.option(30 02)	2.option(30 03)	2.option(30 04)
	Value	ON	ON	ON	ON
Arm	Address	3.option(30 01)	3.option(30 02)	3.option(30 03)	3.option(30 04)
	Value	ON	ON	ON	ON
Disarm	Address	4.option(30 01)	4.option(30 02)	4.option(30 03)	4.option(30 04)
	Value	ON	ON	ON	ON
Programming	Address	5.option(30 01)	5.option(30 02)	5.option(30 03)	5.option(30 04)
	Value	ON	OFF	OFF	OFF
Access Control	Address	6.option(30 01)	6.option(30 02)	6.option(30 03)	6.option(30 04)
	Value	OFF	OFF	OFF	OFF
Sabotage Alarm	Address	7.option(30 01)	7.option(30 02)	7.option(30 03)	7.option(30 04)
	Value	OFF	OFF	OFF	OFF
Partitions	Address	31 01	31 02	31 03	31 04
	Value	A,B,C,D	A,B,C,D	A,B,C,D	A,B,C,D

CUSTOMISE KEYPADS		Open Chime	Close Chime	Backlight Zones	Emergency Buttons	Warning Beeps	Trouble Beeps
VPC108 LED KEYPAD	Address	99 01	99 02	99 03	99 04	99 05	99 06
	Value	1.opt.=1.zone 2.opt.=2.zone 3.opt.=3.zone ….. …… 8.op.t=8.zone Chime is closed	1.opt.=1.zone 2.opt.=2.zone 3.opt.=3.zone ……. ……. 8.opt.=8.zone Chime is closed	1.opt.=1.zone 2.opt.=2.zone 3.opt.=3.zone …… …… 8.opt.=8.zone Only 1.zone has backlight	1.opt.=Panic 2.opt.=Fire 3.opt.=Duress 4.opt= Keypad Tamper All buttons are active	1.opt.=Exit delay 2.opt.=Armed 3.opt.=Alarm 4.opt.=Trouble 5.opt.=Button click 6.opt=Confirm All beeps are active	1.opt.=Power 2.opt.=Battery Low 3.opt.=Time/Date 4.opt.=Phone 5.opt= Zone Trouble 6.opt= Battery fail All beeps are active

KEYPAD INNER SETTINGS	Open Chime	Close Chime	Backlight	Emergency Buttons	Warning Beeps	Trouble Beeps	LANGUAGE	THERMOMETER
VPC301 LCD KEYPAD	CHIME ON 1-8	CHIME OFF 1-8	LIGHT ZONE	BUTTONS	SOUND OPTION	TROUBLE OPTN	LANGUAGE	TERMO CALIB
	1.opt.=1.zone 2.opt.=2.zone 3.opt.=3.zone ….. …… 8.op.t=8.zone Chime is closed	1.opt.=1.zone 2.opt.=2.zone 3.opt.=3.zone ….. …… 8.op.t=8.zone Chime is closed	1.opt.=1.zone 2.opt.=2.zone 3.opt.=3.zone ….. …… 8.op.t=8.zone Only 1.zone has backlight	1.opt.=Panic 2.opt.=Fire 3.opt.=Duress 4.opt= Keypad Tamper All buttons are active	1.opt.=Exit delay 2.opt.=Armed 3.opt.=Alarm 4.opt.=Trouble 5.opt.=Button click 6.opt=Confirm All beeps are active	1.opt.=Power 2.opt.=Battery Low 3.opt.=Time/Date 4.opt.=Phone 5.opt= Zone Trouble 6.opt= Battery fail All beeps are active	ENG.	10

EVENT LOG SETTINGS

Alarms		Intruder	Panic	Fire	Duress	Sabotage (Tamper)	Medical	Disarm by Duress Code	Disarm on Alarm
1.option = CMS 2.option = User Phone 3.option.= CMS Restore 4.option = User Phone Restore 5.option = Record Memory	Address	51 01	51 02	51 03	51 04	51 05	51 06	51 07	51 08
	Value	**1, 2, 3, 5**	**1, 2, 3, 5**	**1, 2, 3, 5**	**1, 2, 3, 5**	**1, 2, 3, 5**	**1, 2, 3, 5**	**1, 2, 5**	**1, 5**
Event Codes (Contact ID)	Address	52 01	52 02	52 03	52 04	52 05	52 06	52 07	52 08
	Value	1130	1120	1110	1120	1144	1100	1121	1406

Troubles		Zone Trouble	AC Fail	Intrusion Verifier	Cross Zone Fault	Low Battery	Line Fail	Battery Fail	Com.. Trouble
1.option = CMS 2.option = User Phone 3.option.= CMS Restore 4.option = User Phone Restore 5.option = Record Memory	Address	51 09	51 10	51 11	51 12	51 13	51 14	51 15	51 16
	Value	**1, 5**	**1, 3, 5**	**1, 5**	**1, 5**	**1, 3, 5**	**1, 3, 5**	**1, 3, 5**	Event recorded in memory
Event Codes (Contact ID)	Address	52 09	52 10	52 11	52 12	52 13	52 14	52 15	52 16
	Value	1372	1301	1139	1378	1302	1351	1302	0000

Events		Special Arm/ Disarm	Arm/ Disarm	Bypassed	Enter Program	Exit Program	Periodic Report	Panel Restarted	Manuel Report
1.option = CMS 2.option = User Phone 3.option.= CMS Restore 4.option = User Phone Restore 5.option = Record Memory	Address	51 17	51 18	51 19	51 20	51 21	51 22	51 23	51 24
	Value	**1, 3, 5**	**1, 3, 5**	**1, 3, 5**	**1, 5**	**1, 5**	**1**	**5**	**Can't be set**
Event Codes (Contact ID)	Address	52 17	52 18	52 19	52 20	52 21	52 22	52 23	52 24
	Value	1400	1402	1570	1627	1628	1602	1305	1601

Events	-	-	-	-	-	Custom Zone Alarm	-	Defaults Loaded

1.option = CMS 2.option = User Phone 3.option.= CMS Restore 4.option = User Phone Restore 5.option = Record Memory	Address	51 25	51 26	51 27	51 28	51 29	51 30	51 31	51 32
	Value	-	-	-	-	-	1, 2, 5	-	5
Event Codes (Contact ID)	Address	52 25	52 26	52 27	52 28	52 29	52 30	52 31	52 32
	Value	-	-	-	-	-	0000	-	0000

USER PHONE DIALER							
Phone Memory		**1**	**2**	**3**	**4**	**5**	**6**
Phone Number	Address	06 01	06 02	06 03	06 04	06 05	06 06
	Value	---	---	---	---	---	---

Telephone Settings		**User Phone Dialer Active/Not Active**	**Cancel Calls on Disarm**	**Alarm on Line Fail**	**Confirm by Single Button**	**Dial Attempt**
Settings	Address	2.option(50 01)	4.option(50 01)	5.option(50 01)	6.option(50 01)	50 02
	Value	OFF	ON	OFF	OFF	3 times
		Redialing Pause	**Cancel Calls on Confirm**	**Make Siren Silence on Confirm**	**AC Fail Call Delay**	-
Settings	**Address**	50 09	50 01 de 7.seçenek	50 01 de 8.seçenek	10 08	
	Value	3 seconds	OFF	OFF	0 minute	
Message Settings		**Out of Partition**	**A Partition**	**B Partition**	**C Partition**	**D Partition**
Numbers that will be called	Address	50 16	50 17	50 18	50 19	50 20
	Value	All phone numbers	All phone numbers	All phone numbers	All phone numbers	All phone numbers

CENTRAL MONITORING STATION SETTINGS							
Numbers		**1.Account No**	**2.Account No**	**Central M. Station-1 (CMS-1) Tel No**	**Central M. Station-2 (CMS-2) Tel No**	**Central M. Station-1 Second Tel No**	**Central M. Station-2 Second Tel No**
	Address	04 01	04 02	05 01	05 02	05 03	05 04
	Value	0000	0000	---	---	---	---

Settings		**CMS Calling Enable/Disable**	**Cancel Calls on Disarm**	**Alarm on Line Fail**	**Dial Attempt**	**Answer Wait Time**
	Address	1. option (50 01)	4.option (50 01)	5.option (50 01)	50 02	50 03
	Value	OFF	ON	OFF	3 times	30 seconds
		Periodic Report Interval	**First Periodic Test Time**	**AC Fail Call Delay**	-	-
	Address	50 04	50 05	10 08		
	Value	24 (hour)	00:00	15 minute		

Dialer Settings		Redialing Pause	CMS-1 Communication Format	CMS-2 Communication Format		
	Address	50 06	50 07	50 08		
	Value	3 seconds	Contact ID	Contact ID		
CMS Messages		**Out of Partition**	**A Partition**	**B Partition**	**C Partition**	**D Partition**
CMS that messages will be sent	Address	50 11	50 12	50 13	50 14	50 15
	Value	CMS-1	CMS-1	CMS-1	CMS-1	CMS-1

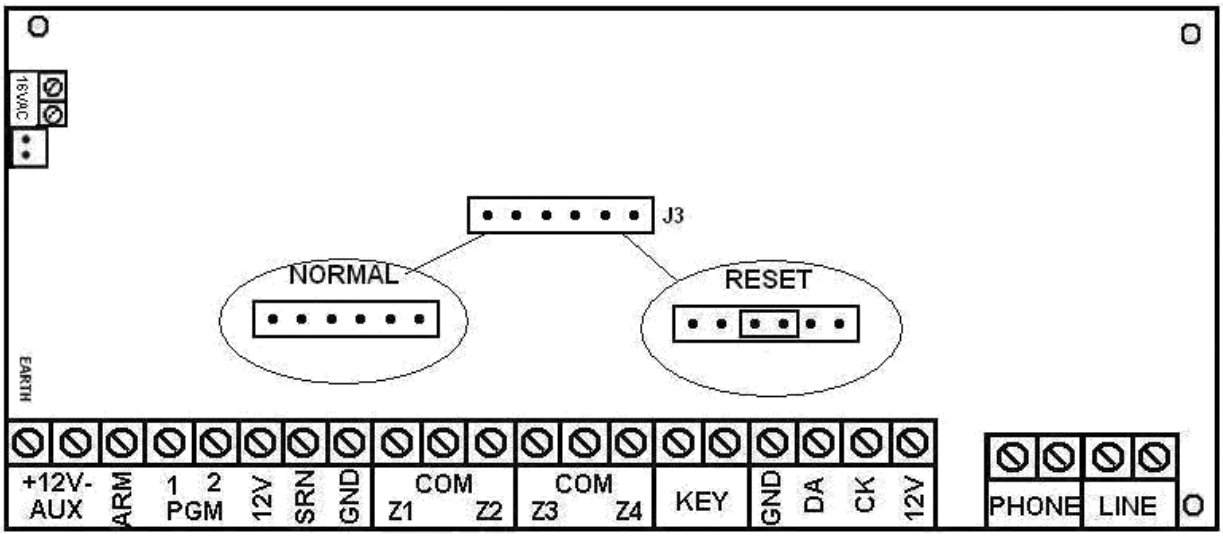
OPTIONAL MODULE SETTINGS		Remote Control Module		Zone Expansion Module
		Enable/Disable	Siren Alarm on Panic	Enable/Disable
	Address	1.opt.(60 01)	2.opt.(60 01)	1.opt.(61 01)
	Value	OFF = Disable	OFF	OFF = Disable

Note1. Indication of the days is 1.Monday, 2.Tuesday, 3.Wednesday, 4.Thursday, 5.Friday, 6.Saturday, 7.Sunday
Note2. "Disable" sometimes means 'closed' or 'NO' ; "Enable" sometimes means 'open' or 'NC'.
Note3. Keypad settings are stored in Keypad not in Panel.
Note4. 4+2 codes are not defaulted. If 4+2 will be used, necessary codes should be entered manually.

6. LOADING FACTORY DEFAULTS

Panel has two types of returning factory defaults.
- Loading default Codes (from Installer or Master Program)
- Loading default Panel Settings (only from Installer Program)

Firstly, ensure that reset permissions are enabled and select reset type then activate reset.
Do jumper setting as following table to restore Panel Settings factory defaults. You don't need change jumper setting to restore codes to factory defaults.



RESTORING CODES TO FACTORY DEFAULTS

Firstly, ensure that reset code permission is enabled installer program(It is selected as a default). Make following steps to reset codes.

4 (long) 9 9 9 9 (Enter Installer Program. Default installer code is 9 9 9 9).
LED Keypad
10 06 1(ON) √ (This step isn't needed to be done if default setting isn't changed)
10 04 1(ON) √

LCD Keypad

LCD 1-PANEL SETTINGS → GENERAL SETTINGS → RESET PERMISSION (This step isn't needed to
1 (ON) √ be done if default setting isn't changed)

LCD 1-PANEL SETTINGS → GENERAL SETTINGS → DEFAULT SET REQ
1 (ON) √

Do following to reset codes by using master code;
Firstly, ensure that reset code permission is enabled installer program(It is selected as a default).

4 (long) 1 2 3 4 (Enter Master Program. Default master code is 1 2 3 4).

LED Keypad

10 04 1 (ON) √

LCD Keypad

LCD 1-PANEL AYARLARI → GENEL AYARLAR → RESET TİPİ
1 (ON) √

RESTORING PANEL SETTINGS TO FACTORY DEFAULTS

Installer code must be known. Firstly, ensure that reset code permission is enabled(It is selected as a default). Make following steps to reset;

Jumper settings must be made properly to restore panel settings to factory defaults.(place jumper as picture above)

4 (long) 9 9 9 9 (Enter Installer Program. Default installer code is 9 9 9 9).

LED Keypad

10 06 2(ON) √ (This step isn't needed to be done if default setting isn't changed)
10 04 2(ON) √

LCD Keypad

LCD 1-PANEL SETTINGS → GENERAL SETTINGS → RESET PERMISSION (This step isn't needed to
2 (ON) √ be done if default setting isn't changed)

LCD 1-PANEL SETTINGS → GENERAL SETTINGS → DEFAULT SET REQ
2 (ON) √

If 1st and 2nd option is selected together, panel settings and codes returns to factory defaults.

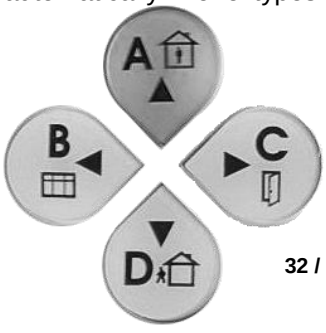
NOTE(1): If siren is connected to the panel, take necessary measures to prevent siren alarming before resetting panel settings.
(2): Central Monitoring Station account numbers, phone numbers, event codes can't be reseted.
(3): Don't forget to remove jumper after loading factory defaults.

7. APPLICATIONS

7.1. SMART PARTITION TECHNOLOGY

VAP404 has two type of partitioning. One of them is A, B, C, D partitioning. Zones are assigned to partitions from addresses of 21 0X(X = Zone number) in this partitioning. Other is Smart Partition Technology(S.P.T). Panel assignees zones to partitions(Door, Window, Interior, and Exterior) automatically. Zone types are configured from 22 0X(X= Zone number).

- Zones are assigned to partitions by using zone types automatically. Interior zones are displayed by A button, Window zones are displayed by B button, Door zones are displayed by C button, and Exterior zones are displayed by D button.



- Doors can be armed by C button, windows can be armed by B button.
- A (HOME) button arms zones except interior zones. Users can arm panel while they are at home by using this button.
- D(AWAY) button arm panel fully .
- Zones except door, window, interior, exterior operates normally.
- S.P.T uses entery/exit delay of 02 01/03 01.
- S.P.T. disables zone partitions that are assigned before but doesn't change settings.
- Partition selection is done as following on S.P.T. 1= Interior, 2= Window, 3= Door, 4= Exterior This selection can be done in 11 01(Siren Partitions), 10 03(Auto Bypassed Partitions), 10 07(ARM Partitions), 12 01- 12 04 -12 07 (Auto Arm/Disarm Partitions), 13 XX(PGM Parameters),16 02 (Key Partitions), 31 0X(Keypad Partitions), 43 XX(User Partitions),

Do following steps to use **S.P.T.**

○ Set zone types; Door, Window, Interior, Exterior, Fire, etc.. Default Value: Z1 = Door, Z2= Interior, Z3= Interior, Z4= Interior	22 XX page 56
○ Select Enter/Exit zones and follower zones Default Value: Z1 = Enter/Exit Delay, Z2= Follower Zone,	23 XX page 57
○ Assign enter and exit delay Default Value: Enter Delay= 15 seconds, Exit Delay =15 seconds	02 XX, 03 XX page 39, 40
○ Enter user phone numbers	06 0X , page 41
○ Activate S.P.T. Default Value: S.P.T. = OFF	1. option in 10 01 page 43

7.2. ACCESS CONTROL

VAP404 panel can be used as Access Controller. After user enters access code, locked door opens for the specific time. User can use this code to Arm/disarm panel from other keypads if that user has permission. Master user's access permissions can't be restricted. Do following steps to use Access Control ;

○ Connect PGM1 to door lock using relay	
○ Connect button between PGM1 and GND to open door inside.	
○ Select PGM1 output type(NC/NO).	2. option in 10 02
○ Select PGM1 type as Access Control	13 01address = 8
○ Select unlocking time	13 02 address = time
○ Connect keypad and assign its address	(Keypad 2, address = 2)
○ Select that Keypad as Access Controller	30 02 address: 1,2,3,4,6
○ Assign access code	07 01 address: 1111: 1.user
○ Select Keypads that access code is enabled	44 01 address: 2

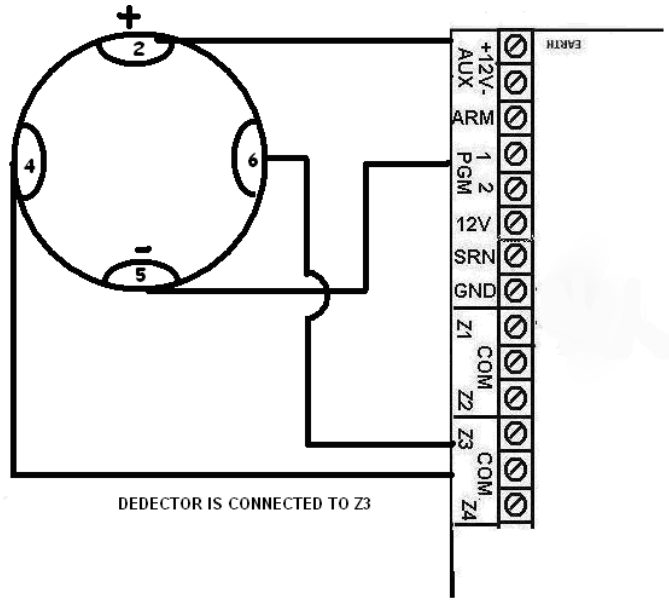
7.3. USING VAP404 PANEL AS TWO SEPERATED PANELS

First, S.P.T. must be disabled.
For example ; if zone1 and zone2 are at A partition and zone3 and zone4 are at B partitions, Do following steps ;

○ Connect two keypad and assign their addresses (Keypad1 : 1, Keypad2 : 2)	
○ Connect 1.siren SRN output, 2. siren to PGM1 output	
○ Assign zones to A anda B partition (1.zone=A, 2.zone=A, 3.zone=B, 4.zone=B)	2101 : 2, 2103 : 4
○ Select zone types	22 01- 04 addresses
○ Select Enter/Exit and follower zone of A partition	23 01- 02 addresses
○ Exit and follower zone of B partition	23 03- 04 addresses
○ Assign enter and exit delays of A partition	02 01, 03 01=times
○ Assign enter and exit delays of B partition	02 02, 03 02=times
○ Assign minimum 2 user code	07 01 and 07 02= codes
○ Assign user's partitions	43 01 : 1, 43 02 : 2
○ Activate 2.keypad from Installer Program	30 02 : 1

- Assign 1.keypad to A partition, 2.keypad to B partition — 31 01: 1, 31 02: 2
- Close S.P.T and Arm/Disarm from Foreign Keypad feature(if enabled) — 10 01 1 , 4 not selected
- Assign Siren partition to A — 11 01 address:1
- Adjust Siren Cutting time — 11 02 =time
- Select PGM1 type as Siren — 13 01 = 6
- Select PGM1 partitions as B — 13 02= 2
- Enter user phone numbers — 06 01-06 address
  (When the phone numbers are entered, dialer actives automatically 2nd option at address 50 01)
- Select phone numbers of A Partition — 50 17
- Select phone numbers of B Partition — 50 18

7.4. CONNECTING FIRE DETECTOR



Do following steps to connect fire detector to VAP404 Panel ;

- Connect contact outputs of fire detector to zone and connect power(+) to AUX(+) and power(-) to PGM1
- It is not recommended to connect more than 2 to the PGM.
- PGM1 output must be defaulted. — 10 02 = 2 is not selected (NO)
- Select PGM1 type as supply fire detector — 13 01 = 5
- Assign detector reset time in seconds — 13 02 = time
- Select type of zone connected to fire detector contacts — 22 03= 6

Note: User can cancel fire alarm by pressing [0 (long)] or by entering user code.

7.5. CONNECTTING FIRE SIREN

Do following steps to connect fire siren to PGM1 output ;

- Connect siren to PGM1
- Select PGM1output type (NC/NO) — 10 02 =2
- Select PGM1 as fire siren — 13 01 = 4

7.6. AUTOMATIC ARM PARTITIONS on NO ACTIVITY

Do following steps;

- Select partitions that will be armed — 12 07= partitions
- Set No activity time — 12 08= time

7.7. ADDING REMOTE CONTROL MODULE

Remote control module can be added to VAP404 panel. Do following steps to add VAR-144 Remote Control Module ;

- Screw module to screw holes in panel case.
- Connect module to panel by connector supplied with module.
- Antenna is mounted proper place.
- RF remote control module is activated from Installer program 60 01 = 1
- Panic alarm is selected as with sound or silent 60 01 = 2
- Remote controller is detected by module

Please read VAR-144 Remote Control Module Guide for details.

7.8. ADDING VOICE MESSAGE MODULE

If voice message module is connected to VAP404 panel, panel reads voice message that user recorded. Do following steps to add Voice Message Module ;

- Screw module to screw holes in panel case.
- Connect module to panel by connector that supplied with module.
- Record message(only in VAV210).

Please read VAV210 Voice Recording Module Guide for details.

7.9. CONNECTION OF VAPMAN SOFTWARE PC VIA COM PORT

- Connect the VPL-232 PC Link Module to 4 pin connector (J4) of the panel.
- Connect RS-232 cable to the module and PC
- Connect 4 pin connection cable to the module and panel.

Please read VPL-232 PC Link Module Guide and VAPMan Software Guide for details.

7.10. CONNECTION OF VAPMAN SOFTWARE PC VIA USB PORT

- Connect the VPL-USB PC Link Module to 4 pin connector (J4) of the panel.
- Connect USB cable to the module and PC
- Connect 4 pin connection cables to the module and panel.

Please read VPL-USB PC Link Module Guide and VAPMan Software Guide for details.

8. DETAILED PROGRAMMING

Usage of this book is explained in following.

4	Press “4”
4 (Program) (long)	Press “4” until you hear long beep.
HH MM	HH= hour MM= minute . Enter time of day. To enter 12:59 , press 1 2 5 9 in order.
2 (ON) 3 (OFF)	Select 2. option and unselect 3. option

While explaining settings, firstly address of settings and its programming mode is displayed then how you made that setting in LED and LCD Keypad.

MASTER PROGRAM		INSTALLER PROGRAM			
Address		**Address**		**Address**	
01 01-03	Time-date-day	01 01-03	Time-date-day		
06 01-05	User Phone Numbers	02 01-04	Entry Delays		
07 01-08	Codes	03 01-04	Exit Delays	20 01-08	Zone Wiring
10 04	Reset Type	04 01-02	Centr. Stat. Account No	21 01-08	Zone Partitions
12 01-03	Auto. Arm	05 01-04	Central M. Station Phone Numbers	22 01-08	Zone Types
12 02-04	Auto. Disarm	06 01-06	User Phone Numbers	23 01-08	Zone Configurations
14 01-06	Timer Settings	10 01	Panel Settings	24 01-08	Zone Delay Time
15 01-02	Remote Control(by phone)	10 02	Output Types	25 01-08	Zone Names
25 01-08	Zone Names	10 03	Auto. Bypass partitions	30 01-04	Keypad Settings
40 01-06	User Start Time	10 04	Reset Type	31 01-04	Keypad Partitions
41 01-06	User Finish Time	10 06	Reset Enable/Disable	50 01	Comm. & Dialer Settings
42 01-06	User Days	10 07	ARM partitions	50 02	Dial Attempt
43 01-06	User Partitions	10 08	AC Fail Call Delay	50 03	Communic. Ring Time
44 01-06	User Keypads	10 09	Cross Zone Detection Type	50 04	Periodic Report Time
45 01-06	User Limitations	11 01	Siren partition	50 05	Start time of periodic test
99 01-07	Keypad Inner Settings	11 02	Siren cut off time	50 06	Redialing Pause
		12 01-03	Auto. Arm	50 07-08	CMS Format
		12 02-04	Auto. Disarm	50 09-10	DTMF 4+2, etc Format Settings
		12 05-06	Auto. Arm on no activity	50 11-15	CMS that messages will be sent
		13 01-16	PGM settings	50 16-20	User Phone numbers that will be called
		14 01-06	Timer settings	51 01-30	Event Log
		15 01-02	Remote Controller Settings	52 01-30	Contact ID Event Codes
		16 01-02	Key Settings	53 01-30	DTMF 4+2, etc Event Codes
				60 01	RF Rem. Controller Sett
				61 01	Zone Module Settings
				99 01-07	Keypad Inner Settings

8.1. MAIN CONFIGURATIONS

8.1.1. Time/Date Settings

- **Time Setting**

Address= 01 01 < IP, MP >
To see value :
LED 01 01 (wait)
LCD 0-BASIC SETTINGS → CLOCK SETTING → CLOCK SETTING(wait)
TIME:
To change value:
LED 01 01 HH MM √
LCD 0-BASIC SETTINGS → CLOCK SETTING → CLOCK SETTING
TIME: HH MM √
HH = hour, MM = minute
Default value : 00:00
Example : To set time as 17:45 do " 01 01 **1745** √ "

- **Date Setting**

Address 01 02 < IP, MP >
To see value :
LED 01 02 (wait),
LCD 0-BASIC SETTINGS →CLOCK SETTTING →CLOCK SETTING (wait)

DATE:

To change value :
LED 01 02 GG AA YY √
LCD 0-BASIC SETTINGS → CLOCK SETTING →CLOCK SETTING
DATE: dd mm yy √
dd = day, mm = month, yy = year
Default value : 00/00/00
Example : To set date as 15 October 2004 do " 01 02 **15 10 04** √ "

- **Day of week**

Address: 01 03 < IP, MP >
To see value :
LED 01 03 (wait)

Day of week : 1=Monday, 2=Tuesday,....., 7=Sunday (single choice)
Default value : 1= Monday

Note: This address is only readable. Panel sets date automatically. LCD Keypad displays date on screen.

8.1.2. Entry Delays

This setting gives selected partition enter delay. Follower zone must be in same partition with delayed zone(Look at Zone Settings).

- **Enter Delay of A Partition**

Entr y delay of S.P.T. is configured here.
Address = 02 01 < IP >
To see value :
LED 02 01 (wait)
LCD 0-BASIC SETTINGS → ENTER DELAYS → 01-PART ENT DLY(wait)

To change value :
LED 02 01 w w w √
LCD 0-BASIC SETTINGS → ENTER DELAYS → 01-PART ENT DLY
w w w SECOND(S) √
w w w = enter delay(second) , (between 0 ~ 255 seconds)
Default value : 15 seconds
Example : To set enter delay of A partition to 20 seconds do " 02 01 20 √ "

- **Enter Delay of B Partition**

Address= 02 02 < IP >
Default value : 0 second

- **Enter delay of C Partition**

Address : 02 03 < IP >
Default value : 0 second

- **Enter Delay of D Partition**

Address : 02 04 < IP >
Default value : 0 second

8.1.3. Exit Delays

This setting gives selected partition exit delay. Follower zone must be in same partition with delay zone(Look at Zone Settings).

- **Exit Delays of A Partition**

Exit delay of S.P.T is configured here.
Address= 03 01 < IP >
To see value :
LED 03 01 (wait)
LCD 0-BASIC SETTINGS → EXIT DELAY → 01-PART EXIT DLY (wait)
To change value :
LED 03 01 w w w √

LCD 0-BASIC SETTINGS → EXIT DELAY → 01-PART EXIT DLY
w w w SECOND(S) √
w w w = exit delay(second) , (between 0 ~ 255 seconds)
Default value : 15 seconds
Example : To set exit delay of A partition to 20 seconds do " 02 01 20 √ "

- **Exit Delay of B Partition**

Address= 03 02 < IP >
Default value : 0 second

- **Exit Delay of C Partition**

Address= 03 03 < IP >
Default value : 0 second

- **Exit Delay of D Partition**

Address: 03 04 < IP >
Default : 0 second

8.1.4. Central Monitoring Station Account Numbers

If Panel will be connected to Central Monitoring Station, Account number is recorded in following address. Panel can connect 2 different Central Monitoring Stations.

- **Account No 1**

Address= 04 01 < IP >
To see value :
LED 04 01 (wait)
LCD 0-BASIC SETTINGS → CMS ACCNT #' S → 01-CMS ACCNT NO (wait)

To change value :
LED 04 01] R R R R √
LCD 0-BASIC SETTINGS → CMS ACCNT #' S → 01-CMS ACCNT NO
R R R R √
R R R R = Account No
Default Value : 0000
Example : To set 1.Account No to **2234** do " 04 01 **2234** √ "

- **Account No 2**

Address= 04 02 < IP >
To see value :
LED 04 02 (wait)
LCD 0-BASIC SETTINGS → CMS ACCOUNT #' S → 02-CMS ACCOUNT NO (wait)

To change value :
LED 04 02 R R R R √
LCD 0-BASIC SETTINGS → CMS ACCOUNT #' S → 02-CMS ACCOUNT NO
R R R R √
R R R R = Account No
Default Value : 0000
Example : To set 2. Account NO to **2234** do " 04 02 **2234** √ "

8.1.5. Central Monitoring Station Phone Numbers

If you use 2 phone numbers of the same CMS, first number is recorded to address of 05 01, second number is recorded to 05 03 and **Account number is recorded to address of 04 01.** Press [0] (long) to add duration time. If you connect 2.CMS, first number is recorded to 05 02, second number is recorded to 05 04 and Account number of 2.Central Monitoring Station is recorded to 04 02. Look at addresses of 50 11-15 to select Central Monitoring Station that messages will be sent. Press 0 (long) to delete phone numbers.

Note: Central Monitoring Station dialer is enabled (1. option in 50 01) automatically when any of CMS number (05 01 ~ 05 04) is entered.

- **Central Monitoring Station-1 (CMS-1) Phone Number**

Address= 05 01 < IP >
To see value :

LED 05 01 (wait)
LCD 0-BASIC SETTINGS → CMS PHONES → 01-CMS PHONE NR (wait)

To change value :
LED 05 01 R R..... R R √
LCD 0-BASIC SETTINGS → CMS PHONES → 01-CMS PHONE NR
R R..... R R √
R R.....R R = Central Monitoring Station Phone Number ,(maximum 15 digit)
Default value : ---

Example : To set CMS-1 Phone Number to **0216 123 45 67** do
" 05 01 **0 216 1234567** √ "

○ **Central Monitoring Station-1 (CMS-1) Secondary Phone Number**
Address= 05 03 < IP >
To see value :
LED 05 03 (wait)
LCD 0-BASIC SETTINGS → CMS PHONES → 03-CMS PHONE NR (wait)

To change value :
LED 05 03 R R..... R R √
LCD 0-BASIC SETTINGS → CMS PHONES → 03-CMS PHONE NR
R R..... R R √
R R.....R R = Central Monitoring Station Phone Number ,(maximum 15 digit)
Default Value : ---
Example : To set CMS-1 Secondary Phone Number to **0216 123 45 67** do
" 05 03 **0 216 1234567** √ "

8.1.6. User Phone Numbers

There are 6 user phone numbers in VAP404 Panel. If user doesn't answer phone or doesn't enter code (*XXXX) panel calls following number also you can select numbers that will be called in all conditions (Look at Event Logs section). You can select phone numbers connected to partition/s or out of partition (Look at addresses of 50 16-20). Panel tries to call same number as the number of dial attempt after than continue to call selected phone numbers. If 7.option in 50 01 is selected, panel cancels to call other phone numbers after confirmation(Each partition needs confirmation to cancel their own calls).

Note: User phone dialer is enabled (2. option in 50 01) automatically when any of user phone number (06 01 ~ 06 06) is entered.

○ **1ST User Phone Number**
Address=06 01 < IP, MP >
To see value :
LED 06 01 (wait)
LCD 0-BASIC SETTINGS → PRIVATE PHONES → 01-USER PHONE NR (wait)

To change value :
LED 06 01 R R..... RR √
LCD 0-BASIC SETTINGS → PRIVATE PHONES → 01-USER PHONE NR R R..... R R √

R R.....R R = User Phone Number ,(maximum 15 digit)
Default Value : ---

Example : To set First dialer number to **0216 123 45 67** do
" 06 01 **0 216 1234567** √ "
Press 0 (long) to add duration time.
" 06 01 **9 0(long) 216 1234567** √ "

○ **2ND User Phone Number**
Address= 06 02 < IP, MP >
Default Value : ---

- **3RD User Phone Number**

Address= 06 03 < IP, MP >
Default Value : ---

- **4TH User Phone Number**

Address 06 04 < IP, MP >
Default Value : ---

- **6TH User Phone Number**

Address= 06 06 < IP, MP >
Default Value : ---

8.1.7. Assigning & Changing User Codes

User codes can be assigned/changed in Master Program. When entered users code, that user becomes enabled. If “0000” is entered as user code, that user becomes disabled.

- **User Code-1**

Address = 07 01 < MP >
To change value :
LED 07 01 YYYY √
LCD 0-BASIC SETTINGS → USER CODES → 01-USER CODE
YYYY √
YYYY = User Code between 0001 and 9999 (0000 means that user becomes disabled).
Default Value : 0000= Disabled
Example : To assign user code-1 as **2345 do** “ 07 01 **2345** √ “

- **User Code-2**

Address = 07 02 < MP >
Default Value : 0000=Disabled

- **User Code-3**

Address = 07 03 **<** MP >
Default Value : 0000=Disabled

- **User Code-4 ~ 5**

Address = 07 04 ~ 05 **<** MP >
Default Value : 0000=Disabled

- **Guest Code**

Address = 07 06 **<** MP >
Default Value : 0000=Disabled

- **Duress Code**

Address = 07 07 . **<** MP >
Default Value : 0000=Disabled

Note: Duress Code is not valid if communicator(Central Monitoring Station calling) and dialer (user calling) is disabled or if there is no phone line connected panel.

- **PC Connection Code**

Address = 07 08 . **<** MP >
Default Value : 7777

User can simply change codes(includes Installer and Master codes) by entering following in Standby mode.

√ (Password) (long) XXXX YYYY YYYY √

XXXX = old code, YYYY = new code

Note: Duress code and PC connection code can only be assigned/changed in master program.

8.2. PANEL SETTINGS

8.2.1. Panel Main Settings

○ Panel Settings

This address includes options about how panel operates generally. Meaning of options is in the following.

	1. option **SPT- Smart Partition Technology**	**2. option** **Quick Arm**	**3. option** **Automatic Siren Test**	**4. option** **Arm/Disarm from foreign Keypad**	**5.option** **Extendable Exit Delay**	**6.option** **Double Hit**	**7. option** **Daylight Saving**
Enabled	ON	ON	ON	ON	ON	ON	ON
Disabled	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Functions of Partition buttons change if SPT**(Smart Partition Technology)** is enabled. A(HOME) button arms zones except interior zones. B(Window) button arms window zones. C(Door) button arms Door zones. D(AWAY) button arms all zones.

Quick Arm enables arming without user code(User press partition button long that he/she wants to arm).

If **Automatic siren test** is enabled, siren alarms for 2 seconds.

If **Arm/Disarm from foreign Keypad** is enabled, users arm/disarm his/her partitions without interested in keypad partitions.

Exit delay is extended when enter/exit zone is active if **Extendable Exit Delay** feature is enabled.

If Double Hit feature is enabled, two alarms from the same zone within cross zone timer duration will cause panel to go into alarm. Double Hit feature is affects only zones selected as Cross Zone.

If Daylight Saving feature is enabled, panel automatically adjusts system time for daylight saving changes.

Note: Daylight Saving feature is devolped for the European Standarts.

Address= 10 01 . < IP >
To see value :
LED 10 01 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → 01-PANEL OPTIONS (wait)

To change value :
LED 10 01 S .....S √
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → 01-PANEL OPTIONS
S .....S √
S = Multiple choice selection(1 ~ 6)
Default Value : 2(ON)= Quick Arm enabled, 3(ON)= Automatic siren test is enabled,
5(ON)= Extendable Exit Delay Enabled
Example : To disable Automatic Siren test do
" 10 01 **3(OFF)** √ "

○ **Output Types**

SRN, PGM1, PGM2, ARM output types(NC/NO) are configured in this address. Meaning of options is in the following.

	1.option	2. option	3.option	5.option
	ARM(siren)	PGM1	PGM2	SRN
ON	NC	NC	NC	NC
OFF	NO	NO	NO	NO

Address = 10 02 < IP >
To see value :
LED 10 02 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → OUTPUT POLAR. (wait)

To change value :
LED 10 02 S .....S √
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → OUTPUT POLAR.
S .....S √

S = Multiple choice selection(1, 2, 3, 5)
Default value : All outputs are NO
Example : To set Siren output as NC do
10 02 **5(ON)** √

○ **Automatic Bypassed Partitions**

If any zone/zones in selected partition are active while arming, that zone/zones is bypassed automatically(Looka at Zone Extra Settings section). Bypass is cancelled when zone returns normal position. Meaning of options is in following;

1. option=A partition, 2. option=B partition, 3. option=C partition, 4. option=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
It is recommended to select only 1= Interior(Look at page 34 for detailed description).

Address = 10 03 < IP >
To see value :
LED 10 03 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → AUTO BYPASS (wait)
PARTITIONS:
To change value :
LED 10 03 S .....S √
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → AUTO BYPASS
PARTITIONS: S .....S √

S = Multi choice selection(1,2,3,4)
Default value : No Automatic Bypassed Partitions
Example : To activate automatic bypass feature of A partition do
" 10 03 **1(ON)** √ "

○ **Reset Type**

You select what type of reset you will do. Meaning of options is in the following.

1. option = Reset codes, 2. option = Reset Panel Settings(*)
Note(*):Panel settings can only be selected on installer program

Address = 10 04 < IP, MP >
To see value :
LED 10 04 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → DEFAULT SET REQ (wait)

To change value :
LED 10 04 S .....S √
LCD 1-PANEL SETTINGS → GENERAL SETTINGS→ DEFAULT SET REQ
S S √

S = Multiple choice selection(1,2)
Default Value : Options are closed
Example : To reset codes and panel settings do
" 10 04 **1(ON) 2(ON)** √ "

○ **Reset Enable/Disable**

Installer can disable reset permissions. Meanings of options are in the following;

1. option = Reseting Codes, 2.option= Reseting Panel Settings

Address = 10 06 < IP >
To see value :
LED 10 06 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → RESET PERMISSION (wait)

To change value :
LED 10 06 S .....S √
LCD 1-PANEL SETTINGS → GENERAL SETTINGS → RESET PERMISSION
S S √
S = Multiple choice selection(1,2)
Default value : All resets are enabled
Example : To disable code reset do
" 10 06 **1 (OFF)** √ "

- **To assign Partition to ARM Output**

6. option in installer address of 10 02 selects type of ARM output(NC/NO).
When selected ARM partitions are armed, ARM output becomes active.

ABCD : 1. option = A partition, 2. option = B partition, 3. option=C partition, 4. option=D partition
S.P.T. : 1.option = Interior 2. option= Window 3. option= Door 4. option= Exterior
It is recommended to select all partitions on S.P.T.(Look at page 34 for detailed description)

Address = 10 07 < IP >
To see value :
LED 10 07 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTING → ARM-OUT SETTING (wait)
PARTITIONS:
To change value :
LED 10 07 S .....S √
LCD 1-PANEL SETTINGS → GENERAL SETTING → ARM-OUT SETTING
PARTITIONS: S .....S √
S = Multiple choice selection(1, 2, 3, 4)
Default Value : 1= A partition, 2=B partition, 3=C partition, 4=D partition
Example : To activate ARM when first and second partitions are armed do
" 10 07 **1(ON) 2(ON) 3(OFF) 4(OFF)** √ "

- **AC Fail Call Delay**

Panel doesn't dial Central Monitoring Station or User during time entered this address when AC voltage of panel is off.

Address = 10 08 < IP >
To see value :
LED 10 08 (wait)
To change value :
LED 10 08 TT √

TT : 2 digit time in minutes(0~60 minutes)
Default Value : 0 minute
Example : To set delay time as 30 minutes do "10 08 **30** √ "

- **Cross Zone Timer**

Cross zone timer starts when zone trip occurs. First trip on a cross zone will not cause an alarm. If a second cross zone that is on the same partition (or the same zone if double hit feature is enabled) is violated within Cross zone timer duration, the panel goes into alarm and sends both zone alarms and "Intrusion Verifier" code to Central Monitoring Station(*) "Cross Zone Fault" code is sent to Central Monitoring Station(*) if no any other violation after first trip on cross zones that are on the same partition occurs within Cross zone timer duration.

Note(*): Don't forget that codes can be sent to Central Monitoring Station if it is not disabled by installer.

Address = 10 09 < IP >
To see value :
LED 10 09 (wait)
LCD 1-PANEL SETTINGS → GENERAL SETTING → CROSS ZONE
TIME: ……..

To change value :
LED 10 09 Time (enter the time between 0-255 sec.) √
LCD 1-PANEL SETTINGS → GENERAL SETTING → CROSS ZONE
TIME: TTT

TTT : Time between 0-255 seconds.
Default : 60 seconds
Sample : To set cross zone time as 40 sec. do 10 09 40.

8.2.2. Siren Settings

- **Siren Partitions**

Siren doesn't alarm if alarm comes from unselected siren partition.

1. option=A ppartition, 2. Option=B partition, 3. Option=C partition, 4. Option=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
It is recommended to select all partitions on S.P.T.(Look at page 34 for detailed description)

Address = 11 01 < IP >
To see value :
LED 11 01 (wait)
LCD 1-PANEL SETTINGS → SIREN SETTINGS → 01-SIREN (wait)
PARTITIONS:
To change value :
LED 11 01 S.....S √
LCD 1-PANEL SETTINGS → SIREN SETTINGS → 01-SIREN
PARTITIONS: S .....S √
S = Multiple choice selection(1, 2, 3, 4)
Default Value : 1=A partition, 2=B partition, 3=C partition, 4=D partition
Example : To disable siren for 3. partition do
" 11 01 **3 (OFF)** √ "

- **Siren Cut off Time**

Address = 11 02 < IP >
To see value :
LED 11 02 (wait)
LCD 1-PANEL SETTINGS → SIREN SETTINGS→ CUT OFF TIME (wait)

To change value :
LED 11 02 R R R √
LCD 1-PANEL SETTINGS → SIREN SETTINGS → CUT OFF TIME
R R R MINUTE(S) √
RRR = 3 digit cut off time (2~255 minutes)
Default value : 5 minutes
Example : To set siren cut off time to 12 minutes do
" 11 02 **12** √ "

8.2.3. Automatic Arm/Disarm Settings

Panel can automatically arm/disarm panel in specific time of day.

- **Automatic Arm Partitions**

Selected partitions in this address are automatically armed. To disable automatic arm feature, unselect partitions. Meanings of options are in the following.

1.option = A partitions, 2. option=B partitions, 3. options=C partition, 4. options=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
It is recommended to select all partitions on S.P.T.(Look at page 34 for detailed description)

Address = 12 01 < IP >
To see value :
LED 12 01 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO ARM (wait)
To change value : PARTITIONS:

LED 12 01 S .....S √

LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO ARM
PARTITIONS: S .....S √
S = Multiple choice selection
Default Value : All partitions are unselected
Example : To select all partitions for automatic arm do
" 12 01 **1(ON) 2 (ON) 3 (ON) 4 (ON)** √ "

○ **Automatic Arm Days**
Selected partitions are armed on time of selected days.

1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5= Friday, 6=Saturday, 7=Sunday
Address=12 02 < IP, MP >
To see value :
LED 12 02 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO ARM (wait)
DAYS:
To change value :
LED 12 02 S .....S √
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO ARM
DAYS: S .....S √
S =Multiple choice selection(1, 2, 3, 4, 5, 6, 7)
Default Value : 1=ON, 2= ON, 3= ON, 4= ON, 5= ON, 6 = ON, 7=ON
Example : To select days except Saturday and Sunday do
" 12 02 1 **(ON) 2 (ON) 3 (ON) 4 (ON) 5 (ON)** √ "

○ **Automatic Arm Time**
Selected Partitions are armed in specific time on selected days.

Address = 12 03 < IP, MP >
To see value :
LED 12 03 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO ARM (wait)
TIME:
To change value :
LED 12 03 HH MM √
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO ARM
TIME: HH MM √
HH = hour, MM = minute
Default value : 00:00
Example : To set arm time to **17:45** do " 12 03 **17 45** √ "

○ **Automatic Disarm Partitions**
Selected partitions in this address are automatically armed. To disable automatic arm feature, unselect partitions. Meanings of options are in the following.

1. option = A partitions, 2. option=B partitions, 3. options=C partition, 4. options=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
It is recommended to select all partitions on S.P.T.(Look at page 34 for detailed description)

Address = 12 04 < IP >
To see value :
LED 12 04 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO DISARM (wait)
PARTITIONS:
T o change value :
LED 12 04 S .....S √
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO DISARM
PARTITIONS: S .....S √

S = Multiple choice selection
Default Value : All disarm partitions are closed.

Example : To select days except Saturday and Sunday do
" 12 04 **1 (ON) 2 (ON) 3 (ON) 4 (ON)** √ "

○ **Automatic Disarm Days**
Selected partitions are armed on time of selected days.

1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5= Friday, 6=Saturday, 7=Sunday

Address= 12 05 < IP, MP >
To see value :
LED 12 05 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO DISARM (wait)
DAYS:
To change value :
LED 12 05 S .....S √
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO DISARM
DAYS: S .....S √
S =Multiple choice selection
Default Value : 1, 2, 3, 4, 5, 6, 7
Example : To select days except Saturday and Sunday do
" 12 05 **1 (ON) 2 (ON) 3 (ON) 4 (ON) 5 (ON)** √ "

○ **Automatic Disarm Time**
Selected Partitions are armed in specific time on selected days.

Address = 12 06 < IP, MP >
To see value :
LED 12 06 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO DISARM (wait)
TIME:
To change value :
LED 12 06 HH MM √
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → AUTO DISARM
TIME: HH MM √
HH = hour, MM = minute
Default Time : 00:00
Example : To set disarm time to **07:45** do " 12 06 **07 45** √ "

○ **Automatic Arm Partitions on No Activity**
Selected partitions are armed automatically if no activation occurs within assigned time. No partition should be selected to close this feature.

1. option=A partition, 2. option=B partition, 3. option=C partition, 4. option=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
It is recommended to select all partitions on S.P.T.(Look at page 34 for detailed description)

Address = 12 07 < IP >
To see value :
LED 12 07 (wait)
LCD 1-PANEL SETTINGS→ AUTO ARM/DISARM → INACTIVITY ARM (wait)
PARTITIONS:
To change value :
LED 12 07 S .....S √
LCD 1-PANEL SETTINGS→ AUTO ARM/DISARM → INACTIVITY ARM S .....S √
PARTITIONS:
S = Multiple choice selection(1, 2, 3, 4)
Default Value : All partitions are closed
Example : To select all zones do
" 12 07 **1 (ON) 2 (ON) 3 (ON) 4 (ON)** √ "

○ **No activity time**
Selected partitions is armed automatically if no activation is occurs within assigned time.

Address= 12 08 < IP >
To see value :
LED 12 08 (wait)
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → INAC ARM DELAY (wait)

To change value :
LED 12 08 R R R √
LCD 1-PANEL SETTINGS → AUTO ARM/DISARM → INAC ARM DELAY
R R R √
R R R = 3 digit time(5 ~ 255 in minutes)
Default Value : 30 minutes
Example : To set time to 60 minutes do 12 08 **60** √

8.2.4. PGM Output Settings

This setting includes PGM usage. PGM has two addresses. One of them is for usage type, other is for parameter address. VAP404 PLUS has 2 PGM outputs. You can get 4 PGM outputs by using TRM904 module, or can get 8 PGM outputs by using 2 TRM904 module together. Look at TRM904 guide for detailed description.

<table>
<tr><th>Type</th><th>Description</th><th>Parameter</th><th>Def. Value</th></tr>
<tr><td>0</td><td>Free PGM</td><td>Any value is not entered.</td><td>-</td></tr>
<tr><td>1</td><td>PGM becomes active while selected zones are active</td><td><table><tr><th>Zone</th><th>Value</th><th>Zone</th><th>Value</th></tr><tr><td>Z1</td><td>1</td><td>Z5</td><td>16</td></tr><tr><td>Z2</td><td>2</td><td>Z6</td><td>32</td></tr><tr><td>Z3</td><td>4</td><td>Z7</td><td>64</td></tr><tr><td>Z4</td><td>8</td><td>Z8</td><td>128</td></tr></table>The table values of the selected zones are added to each other and entered. Exp: For Z3 and Z6 zones, 4+32=36 is entered.</td><td>255</td></tr>
<tr><td>2</td><td>PGM becomes active while selected partitions are active</td><td><table><tr><th>Part.</th><th>Value</th></tr><tr><td>A</td><td>1</td></tr><tr><td>B</td><td>2</td></tr><tr><td>C</td><td>4</td></tr><tr><td>D</td><td>8</td></tr></table>The table values of the selected partition(s) are added to each other and entered.

Exp: For B and C partitions, 2+4=6 is entered</td><td>15</td></tr>
<tr><td>3</td><td>PGM is activated when selected partitions are armed</td><td><table><tr><th>Part.</th><th>Value</th></tr><tr><td>A</td><td>1</td></tr><tr><td>B</td><td>2</td></tr><tr><td>C</td><td>4</td></tr><tr><td>D</td><td>8</td></tr></table>The table values of the selected partition(s) are added to each other and entered.

Exp: For B partition, 2 is entered</td><td>15</td></tr>
<tr><td>4</td><td>PGM is activated on fire.(Fire siren can be connected)</td><td>Any value is not entered. When the fire alarm is dedected, PGM continuously activates.</td><td>-</td></tr>
<tr><td>5</td><td>Power of fire detector is connected to PGM.</td><td>The resetting time of the detector between 1...255 as second.</td><td>10</td></tr>
<tr><td>6</td><td>PGM is connected to additional siren that is related with selected partitions</td><td><table><tr><th>Part.</th><th>Value</th></tr><tr><td>A</td><td>1</td></tr><tr><td>B</td><td>2</td></tr><tr><td>C</td><td>4</td></tr><tr><td>D</td><td>8</td></tr></table>The table values of the selected partition(s) are added to each other and entered.

Exp: For A and D partitions, 1+8=9 is entered</td><td>15</td></tr>
<tr><td>7</td><td>PGM is activated while selected troubles occur</td><td><table><tr><th>Trouble</th><th>Value</th><th>Trouble.</th><th>Value</th></tr><tr><td>AC Fail</td><td>1</td><td>Tel.Line Fail</td><td>8</td></tr><tr><td>Battery Low</td><td>2</td><td>Zone Trouble</td><td>16</td></tr><tr><td>Time Loss</td><td>4</td><td>Battery Fail</td><td>32</td></tr></table>The table values of the selected troubles are added to each other and entered. Exp: For Battery Low and Zone Trouble, 2+16=18 is entered.</td><td>63</td></tr>
<tr><td>8</td><td>PGM controls magnetic lock connected to door</td><td>The keeping open time of the magnetic lock between 1...255 as second.</td><td>5</td></tr>
<tr><td>9</td><td>PGM is activated/deactivated in time specified in Timer1 or Timer2 (*)</td><td>The working time between 0...255 as minute.
Note: If the number is 0, it works until closing by another source.</td><td>0</td></tr>
</table>

<table>
<tr><th>Type</th><th>Description</th><th>Parameter</th><th>Def. Value</th></tr>
<tr><td>10</td><td>PGM random output ON/OFF</td><td>
<table>
<tr><th>Param.</th><th>PGM ON Time</th><th>PGM OFF Time</th></tr>
<tr><td>0</td><td>1...255 second</td><td>1...255 second</td></tr>
<tr><td>1</td><td>1...255 minute</td><td>1...255 minute</td></tr>
<tr><td>2</td><td>1...63 second</td><td>1...255 second</td></tr>
<tr><td>3</td><td>1...63 minute</td><td>1...255 minute</td></tr>
</table>
</td><td>0</td></tr>
<tr><td>11</td><td>PGM is activated on ARM</td><td>The working time between 0...255 as minute.
Note: If the number is 0, it works until closing by another source.</td><td>0</td></tr>
<tr><td>12</td><td>PGM is activated on DISARM</td><td>The working time between 0...255 as minute
Note: If the number is 0, it works until closing by another source.</td><td>0</td></tr>
<tr><td>13</td><td>PGM is activated on RC panic button</td><td>The working time between 0...255 as minute.
Note: If the number is 0 and when the button is pushed the mode changes.</td><td>0</td></tr>
<tr><td>14</td><td>PGM is activated on relevant alarm occour</td><td>
<table>
<tr><th>Alarm</th><th>Value</th><th>Alarm</th><th>Value</th></tr>
<tr><td>Intruder</td><td>1</td><td>Duress</td><td>8</td></tr>
<tr><td>Panic</td><td>2</td><td>Tamper</td><td>16</td></tr>
<tr><td>Fire</td><td>4</td><td>Medical</td><td>32</td></tr>
</table>
The table values of the selected alarms are added to each other and entered.
Exp: For Intruder and Fire alarms 1+4=5 is entered.
</td><td>63</td></tr>
</table>

(*)9. option is valid for the first four PGM's(PGM1 to PGM4)

- **PGM 1 Usage**

Address = 13 01 < IP >
To see value :
LED 13 01 (wait)
LCD 1-PANEL SETTINGS → PGM SETTINGS → USE PGM 1 AS: (wait)

To change value :
LED 13 01 R √
LCD 1-PANEL SETTINGS → PGM SETTINGS → USE PGM 1 AS:
[VALUE]
(Select using B(left) and C(right) buttons) √
R = Number between 0 and 10 (on LED Keypad)
Default value : 0, Closed
Example : To assign PGM1 to zones 13 01 **1** √

- **PGM 1 Parameters**

Address = 13 02 < IP >
To see value :
LED 13 02 (wait)
LCD 1-PANEL SETTINGS → PGM SETTINGS → PGM 1 SETTING (wait)

To change value :
LED 13 02 R R R √
LCD 1-PANEL SETTINGS → PGM SETTINGS → PGM 1 SETTING
P P P √

PPP = Number between 0 and 255
Default Value : 0
Example : To configure p**arameter as 2** do " 13 02 **2** √ "

- **PGM 2 Usage**

Address = 13 03 < IP >
To see value :
LED 13 03 (wait)
LCD 1-PANEL SETTINGS → PGM SETTINGS → USE PGM 2 AS: (wait)

To change value :
LED 13 03 R √
LCD 1-PANEL SETTINGS → PGM SETTINGS → USE PGM 2 AS:
[VALUE] (Select using B(left) and C(right) buttons) √
R = Number between 0 and 10 (on Led Keypad)
Default Value : 0, Closed
Example : To use PGM2 as additional siren Output do " 13 03 **6** √ "

○ **PGM 2 Parameters**
Address = 13 04 < IP >
To see value :
LED 13 04 (wait)
LCD 1-PANEL SETTINGS → PGM SETTINGS → PGM 2 SETTING (wait)

To change values :
LED 13 04 P..... P √
LCD 1-PANEL SETTINGS → PGM SETTINGS → PGM 2 SETTING
P P P √

PPP = Number between 0 and 255
Default Value : 0
Example :To configure p**arameter as 3 do** " 13 04 **3** √ "
PGM 2 operates as siren when alarm is from first and second partition by above settings.

8.2.5. Timer Settings

PGM can be controlled by Timer1 or Timer2. PGM can be set to ON position in specific time of week or can be set to OFF position in specific time of week. Before doing timer settings, PGM usage type has to be selected as "9"(13 01 = 9). Timer settings can be done only for the first 4 PGM's(PGM1 to PGM4). VAP404 PLUS has 2 PGM outputs. You can get 4 PGM outputs by using TRM904 module, or can get 8 PGM outputs by using 2 TRM904 module together. Look at TRM904 guide for detailed description.

	1. option Control of PGM1	**2. option PGM1 State**	**3. option Control of PGM2**	**4. option PGM2 State**	**5. option Control of PGM3**	**6. option PGM3 State**	**7. option Control of PGM4**	**8. option PGM4 State**
Light=ON	Enable	ON	Enable	ON	Enable	ON	Enable	ON
Light=OFF	Disable	OFF	Disable	OFF	Disable	OFF	Disable	OFF

○ **To activate Timer1**
Address = 14 01 < IP, MP >
To see value :
LED 14 01 (wait)
LCD 1-PANEL SETTINGS → TIMERS → TMR 1 SETTINGS (wait)

To see values :
LED 14 01 S .....S √
LCD 1-PANEL SETTINGS → TIMERS → TMR 1 SETTINGS
S .....S √

S = Multi choice selection(1,…, 8)
Default Value : All settings are closed
Example : To activate PGM1 in specific time do
14 01 **1 (ON) 2 (ON)** √

○ **Timer 1 Days**
This setting provides selects on which day timer1 controls PGM1.Meaning of options is in the following.

1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday

Address = 14 02 < IP, MP >
To see value :

LED 14 02 (wait)
LCD 1-PANEL SETTINGS → TIMERS→ TMR 1 SETTINGS (wait)
DAYS:
To change value :
LED 14 02 S .....S √
LCD 1-PANEL SETTINGS → TIMERS→ TMR 1 SETTINGS
DAYS: S .....S √
S = Multi choice selection(1, 2, 3, 4, 5, 6, 7)
Default Value : 1=ON, 2=ON, 3=ON, 4=ON, 5=ON, 6=ON, 7=ON
Example : To select days except Saturday and Sunday do
" 14 02 **1 (ON) 2 (ON) 3 (ON) 4 (ON) 5 (ON) 6 (OFF) 7 (OFF)** √ "

○ **Time of Timer1**
Panel controls PGM1 in specified time of week.

Address = 14 03 < IP, MP >
To see value :
LED 14 03 (wait)
LCD 1-PANEL SETTINGS → TIMERS → TMR1 SETTINGS (wait)
TIME:
To change value :
LED 14 03 HH MM √
LCD 1-PANEL SETTINGS → TIMERS → TMR 1 SETTINGS
TIME: HH MM √
HH = hour, MM = minute
Default Value : 00:00
Example : To set time as **17:45** do " 14 03 **17 45** √ "

○ **To activate Timer2**
Address = 14 04 . < IP, MP >
To see value :
LED 14 04 (wait)
LCD 1-PANEL SETTINGS → TIMERS → TMR 2 SETTINGS (wait)

To see value :
LED 14 04 S .....S √
LCD 1-PANEL SETTINGS → TIMERS → TMR 2 SETTINGS
S .....S √
S = Multiple choice selection(1,…, 8)
Default Value : All settings are closed
Example : To set PGM1 to OFF position in specific time do
" 14 04 **1 (ON) 2 (OFF)** √ "

○ **Timer 2 Days**
This setting provides selects on which day Timer1 controls PGM1. Meaning of options is in the following.

1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday

Address = 14 05 < IP, MP >
To see value :
LED 14 05 (wait)
LCD 1-PANEL SETTINGS → TIMERS → TMR 2 SETTINGS (wait)

To change value :
LED 14 05 S .....S √
LCD 1-PANEL SETTINGS → TIMERS → TMR 2 SETTINGS
DAYS: S .....S √
S = Multi choice selection(1, 2, 3, 4, 5, 6, 7)
Default Value : 1=ON, 2=ON, 3=ON, 4=ON, 5=ON, 6=ON, 7=ON
Example : To select days except Saturday and Sunday do
" 14 05 **1 (ON) 2 (ON) 3 (ON) 4 (ON) 5 (ON) 6 (OFF) 7 (OFF)** √ "

Time of Timer2

Panel controls PGM2 in specified time of week.

Address = 14 06 . < IP, MP >
To see value :
LED 14 06 (wait)

To change value :
LED 14 06 HH MM √
LCD 1-PANEL SETTINGS → TIMERS → TMR 2 SETTINGS
HH MM √
HH = hours, MM = minutes
Default Value : 00:00
Example : To set time as **08:30** do " 14 06 **08 30 "** √

8.2.6. Remote Controlling

User can call controls some features of Panel remotely.

REMOTE CONTROL		**Phone**	**PC Software (Modem) ***
Enable / Disable	Address	1. option(15 01)	2. option(15 01)
	Value	OFF	OFF
Answer Ring Count	Address	15 02	
	Value	5 times	

* This feature is only active if modem module is connected to VAP404 panel.

- **Enable/Disable Remote Contro**

Remote control is enabled/disabled here. In addition to this, If code is entered wrong 5 times, remote control is disabled automatically by panel. To enable remote control again, enter its address select its option,

Address = 15 01 < IP, MP >
To see value :
LED 15 01 (wait)
LCD 1-PANEL SETTINGS → REMOTE ACCES → REMAC OPTIONS (wait)

To change value :
LED 15 01 S S √
LCD 1-PANEL SETTINGS → REMOTE ACCES → REMAC OPTIONS
S √
S = Multiple choice selection(1, 2)
Default Value : Disabled
Example : To enable phone remote control do " 15 01 **1 (ON)** √ "

- **Answer Ring Count**

Address = 15 02 < IP, MP >
To see value :
LED 15 02 (wait)
LCD 1-PANEL SETTINGS → REMOTE ACCES → RING COUNT (wait)

To change value :
LED 15 02 R R √
LCD 1-PANEL SETTINGS → REMOTE ACCES → RING COUNT
R R √
RR = Answer time, (1 ~ 20)
Default setting : 5
Example : To set ring count to **10** do " 15 02 **10** √ "

8.2.7. KEY Input

- **KEY Input**

Key input option is in the following.

1. option = KEY Enable/Disable
2. option = OFF(Pulse Mode)/ ON(Continues Mode)

Address = 16 01 < IP >
To see values :

LED 16 01 (wait)
LCD 1-PANEL SETTINGS → KEY SETTINGS → KEY A/D SETTING (wait)

To change values :
LED 16 01 S S √
LCD 1-PANEL SETTINGS → KEY SETTINGS → KEY A/D SETTING
S S √
S = Multi choice selection
Default Value : All options are closed.
Example : To activate key input in pulse mode do " 16 01 **1 (ON) 2 (OFF)** √ "

○ **Key Partitions**
Partitions that are selected here are armed by key input.

1. option=A partition, 2. Option=B partition, 3. Option=C partition, 4. Option=D partition

Address = 16 02 < IP >
To see value :
LED 16 02 (wait)
LCD 1-PANEL SETTINGS → KEY SETTINGS → KEY A/D SETTING (wait)

To change value :
LED 16 02 S .....S √
LCD 1-PANEL SETTINGS → KEY SETTINGS → KEY A/D SETTING
S .....S √
S = Multiple choice selection
Default Value : 1=A partition, 2=B partition, 3=C partition, 4=D partition
Example : To select only A partition for Key do
" 16 02 **1 (ON) 2 (OFF) 3 (OFF) 4 (OFF)** √ "

8.3. ZONE SETTINGS

8.3.1. Zone Wiring

Each Zone can be programmed to use with NC, NO contacts and single EOL(End of Line) resistor, double EOL resistor can be used in wiring or you don't use EOL. You can close any zone that will not be used in the same programming address. Meanings of options in installer address of 20 0X (X=Zone Number) are in the following.

	1. option	**4. option**
ON	NC contact	Zone ON
OFF	NO contact	Zone OFF

	2. option	**3.option**
None EOL resistor	OFF	OFF
Single EOL resistor	ON	OFF
Double EOL resistor	OFF	ON
Zone Doubling	ON	ON (From Z1 to Z4)

Zone quantity can be increased to 8 by zone doubling feature. You make zone doubling by using 1kΩ and **2k**Ω resistors connected to zone. Zone doubling is enabled in Zone Wiring section of Installer Program. Each physical zone can be used as 2 zone by zone doubling. Contact types(NC,NO) of zones can be configured from their addresses. Zone doubling feature can't be used together with zone expander module. Double zones are Z1-Z5, Z2-Z6, Z3-Z7, Z4-Z8.

Look at Zone Wiring section in 9.3.1 for details.
Note: Default Zone wiring is NC and None EOL resistor.

○ **Zone1 Wiring**
Address = 20 01 . < IP >

To see value :
LED 20 01 (wait)
LCD 2-ZONE SETTINGS → CONNECTION TYPE → 01-CONNECT TYPE (wait)

To change value :
LED 20 01 S .....S √
LCD 2-ZONE SETTINGS → CONNECTION TYPE → 01-CONNECT TYPE
S .....S √

S = option(ON/OFF)
Default Value : 1. option = ON, 2. option= OFF 3. option = OFF, 4. option = ON
Example : To set 1.zone to **NO** contact do
20 01 **1 (OFF) 2 (OFF) 3 (OFF) 4 (ON)** √
: To set 1.zone to **NC** contact and **double EOL resistor**
do " 20 01 **1 (ON) 2 (OFF) 3 (ON) 4 (ON)** √ "

- **Zone2 Wiring**

Address = 20 02 < IP >
Default Value : 1. option = ON, 2. option= OFF, 3. option = OFF, 4. option = ON

- **Zon3 Wiring**

Address= 20 03 < IP >
Default Value : 1. option = ON, 2. option= OFF 3. option = OFF, 4. option = ON

- **Zone4 Wiring**

Address = 20 04 < IP >
Default Value : 1. option = ON, 2. option= OFF 3. option = OFF, 4. option = ON

- **Zone5 ~ Zone8 Wiring**

Address = 20 05-08 < IP >
Default Value : 1. option = ON, 2. option= OFF 3. option = OFF, 4. option = ON

8.3.2 Zone Partitions

Each zone can be assigned to one of the A, B, C, D Partitions. Meanings of options are in installer address of 21 0X (X=Zone number).

1.option= A Partition, 2.option= B Partition, 3.option= C Partition, 4.option=D Partition

S.P.T doesn't use this setting. Look at page 34 for detailed description.

- **Defining Partition of Zone1**

Address= 21 01 < IP >

To see value :
LED 21 01 (wait)
LCD 2-ZONE SETTINGS → PARTITION → 01-ZONE (wait)
PARTITION:
To change value :
LED 21 01 P √
LCD 2-ZONE SETTINGS → PARTITION → 01-ZONE
PARTITION: P √
P = Partition.(1=A Partition, 2=B Partition, 3=C Partition, 4=D Partition ; Single choice
Default Value : 1 = A Partition
Example : To assign Zone1 to **C partition** do **"** 21 01 **3** √ "

- **Defining Partition of Zone2**

Address = 21 02 < IP >
Default Value : 1 = A Partition

- **Defining Partition of Zone3**

Address = 21 03 < IP >

Default Value : 1 = A Partition

- **Defining Partition of Zone4**

Address = 21 04 < IP >
Default Value : 1 = A Partition

- **Defining Partition of Zone5 ~ Zone8**

Address = 21 05-08 < IP >
Default Value : 1 = A Partition

8.3.3 Zone Types

Zone types are selected in this address. One zone has only one type. Numbers of Zone types are in the following.

Option	Zone Type	Description
0	Free zone	
1	Door	Used with magnetic contacts that is connected doors. If Panel is configured as Smart Partition, Panel automatically assigns that zone to Door Partition
2	Window	Used with magnetic contacts that is connected windows. If Panel is configured as Smart Partition, Panel automatically assigns that zone to Window Partition.
3	Interior	Used with interior areas. If this zone is used as follower zone, you should select follower zone option in address of 23 0X (X= zone number).
4	Exterior	Used with detectors that is connected out of home.
5	24 Hour	This zone alarms if panel armed or disarmed when zone is active.
6	Fire	This zone alarms if panel armed or disarmed when zone is active. To silent alarm from this zone enter user code or press [0(long)].
7	Panic	This zone alarms if panel armed or disarmed when zone is active and communicator sends Panic alarm code to Central Monitoring Station.
8	Duress	This zone alarms if panel armed or disarmed when zone is active and communicator sends Duress alarm code to Central Monitoring Station.
9	Tamper (Sabotage)	This zone alarms if panel armed or disarmed when zone is active and communicator sends Tamper alarm code to Central Monitoring Station .
10	Medical	This zone alarms if panel armed or disarmed when zone is active and communicator sends Medical alarm code to Central Monitoring Station
11	Custom Zone	This zone is always active. This zone can be customized according to user's request. For example; flood zone can be determined to this zone.

- **Type of Zone1**

Address = 22 01 < IP >
To see value :
LED 22 01 (wait)
LCD 2-ZONE SETTINGS → ZONE TYPE → 01-ZONE TYPE (wait)

To change Value :
LED 22 01 R R √
LCD 2-ZONE SETTINGS → ZONE TYPE → 01-ZONE TYPE
R R √
R R = Zone type
Default Value :1 = Door
Example :To set 1. zone to **Interior** do " 22 01 **3** √ "

○ **Type of Zone2**
Address = 22 02 < IP >
Default Value : 03 = Interior

○ **Type of Zone4**
Address = 22 04 < IP >
Default Value : 03 = Interior

○ **Type of Zone5 ~ Zone8**
Address = 22 05-08 < IP >
Default Value : 03 = Interior

8.3.4 Zone Extra Settings

Meanings of options in installer address of 23 0X (X=Zone Number) is in the following. To activate option, light corresponded led.

	1.option	2.option	3.option	4.option	5.option
ON	End Door	Follower(1)	Entery/Exit(1)	Silent Zone	Can not be bypassed manually
OFF	Normal	Normal	Normal	Normal	Can be bypassed manually

	6.option	7.option
ON	Can not be bypassed automatically	Cross Zone Enable(2)
OFF	Can be bypassed automatically	Cross Zone Disable

If End door option is selected, Exit delay ends automatically when exit door is closed. Follower zone provides delay time if firstly Enter/Exit zone is activated. If follower zone is activated firstly (before enter/exit zone), panel alarms. Zone that users use to enter/exit area is set as Follower zone. If zone set as silent, siren doesn't alarm but communicator sends alarm code to Central Monitoring Station, when that zone is activated. If 5.option is selected, that zone can't be bypassed manually by using keypad. When 6.option is not selected, that zone is bypassed automatically if that zone belongs to automatic bypassed partitions(Look at page 44). Bypass is cancelled when zone returns to normal position in automatic bypass. If 7. option is selected, zone is enable for cross zoning. Two or more trips specified as cross zone(s) that are on the same partition are required for alarm within specified time in Cross zone timer. If Double Hit Feature is enabled, two alarms from the same or different cross zone that is on the same partition within Cross zone timer cause an alarm. "Intrusion verifier" code is sent to Central Monitoring Station(3) if an alarm is from cross zones. "Cross Zone Fault" code is sent to Central Monitoring Station(3) if no any other violation after first trip on cross zones that are on the same partition occurs within Cross zone timer duration.

Note(1) : 2. and 3. option can't be selected together.
(2) : Cross zone feture only applies to zones defined as Door, Window, Interior, Exterior. It is not recommended to enable Cross Zone feature on Entery/Exit and Follower zones.
(3) : Don't forget that codes can be sent to Central Monitoring Station if it is not disabled by installer.

○ **Zone1**
Address = 23 01 < IP >
To see value :
LED 23 01 (wait)
LCD 2-ZONE SETTINGS → EXTRA SETTINGS → 01-ZONE OPTIONS (wait)

To change value :
LED 23 01 S .....S √
LCD 2-ZONE SETTINGS → EXTRA SETTINGS → 01-ZONE OPTIONS
S.....S √
S= option(ON/OFF)
Default Value : 3 = ON
Example : To set 1.zone as End door do
" 23 01 1(ON) √ "

○ **Zone2**
Address = 23 02 < IP >
Default Value : -
. .
. .

○ **Zone4**
Address = 23 04 < IP >

Default Value : -

- **Zone5 ~ Zone8**

Address = 23 05-08 < IP >
Default Value : -

8.3.5. Zone Trigger Delay

Zones don't sense alarm until trigger delay expires.

- **Zone1 Trigger Delay**

Address = 24 01 < IP >
To see value :
LED 24 01 (wait)
LCD 2-ZONE SETTINGS→ LOOP SETTINGS→ 01-ZONE DELAY (wait)

To change value :
LED 24 01 R R √
LCD 2-ZONE SETTINGS→ LOOP SETTINGS→ 01-ZONE DELAY
R R √
R R = time(Trigger Delay = 30 ms x time)
Default Value : 8 = 8x30=240 milliseconds=2.4 sec.
Example :To set 1.zone trigger to 1.5 second do " 24 01 **50** √ "

- **Zone2 Trigger Delay**

Address : 24 02 < IP >
Default Value : 8
. .
. .

- **Zone4 Trigger Delay**

Address = 24 04 < IP >
Default Value : 8

- **Zone5 ~ Zone8 Trigger Delay**

Address = 24 05-08 < IP >
Default Value : 8

8.4. KEYPAD SETTINGS

8.4.1. Keypad Permissions

Keypad Permission address is 30 0X (X= Keypad address).Following table shows options in that address.

	1.option(*) Keypad Enable/Disable	**2.option Quick Arm**	**3. option Arm**	**4. option(*) Disarm**	**5. option(*) Programming Permission**	**6. option Access**	**7.option Sabotage Alarm**
Enabled	ON	ON	ON	ON	ON	ON	ON
Disabled	OFF	OFF	OFF	OFF	OFF	OFF	OFF

Note(*) : Theese options are assumed as enabled for the first Keypad (Keypad 1) even if they are disabled.

If sabotage alarm of Keypads (7. option in 30 0X) is ON, panel goes into alarm when its connection has lost.

- **Keypad 1 Permissions**

Address = 30 01 < IP >
To see value :
LED 30 01 (wait)
LCD 3-KEYPAD SETTING → KEYPAD OPTIONS → 01-OPTIONS (wait)
To change Value :
LED 30 01 S .....S √
LCD 3-KEYPAD SETTING → KEYPAD OPTIONS → 01-OPTIONS
S .....S √
S = multiple choice selection
Default Value : 1=Keypad Enable, 2=Quick Arm Enable, 3= Arm Enable, 4=Disarm Enable, 5=Programming Permission Enable

Example : To disable 1. keypads quick arm permission do
" 30 01 2(OFF) √ "

○ **Keypad 2 Permissions**
Address = 30 02 < IP >
Default Value : 2=Quick Arm Enabled, 3= Arm Enabled, 4= Disarm Enabled

○ **Keypad 3 Permissions**
Address = 30 03 < IP >
Default Value : 2=Quick Arm Enabled, 3=Arm Enabled, 4= Disarm Enabled

○ **Keypad 4 Permissions**
Address = 30 04 < IP >
Default Value : 2=Quick Arm Enabled, 3=Arm Enabled, 4=Disarm Enabled

8.4.2. Keypad Partitions

Each keypad can be assigned to different partitions so can keypad controls partitions it is authorized. As a default each keypad is assigned to all partitions.
Keypad Partition address is 31 0X (X= Keypad address).Following table shows options in that address.

1. option=A partition, 2. option=B partition, 3. option=C partition, 4. option=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
All partitions must be selected on S.P.T.(Look at page 34 for detailed description)

○ **Keypad 1 Partition**
Address= 31 01 < IP >
To see value :
LED 31 01 (wait)
LCD 3-KEYPAD SETTING → PARTITIONS → 01-AUTHORISED (wait)
PARTITIONS:
To change value :
LED 31 01 S .....S √
LCD 3-KEYPAD SETTINGS →PARTITIONS → 01-AUTHORISED
S .....S √
S = Multiple choice selection
Default Value : 1=A partition, 2=B partition, 3=C partition, 4=D partition
Example : To assign 1.keypad to A and B partitions do
31 01 **1(ON) 2(OFF) 3(OFF) 4(OFF)** √

○ **Keypad 2 Partition**
Address = 31 02 < IP >
Default Value : 1=A partition, 2=B partition, 3=C partition, 4=D partition

○ **Keypad 3 Partition**
Address=31 03 < IP >
Default Value : 1=A partition, 2=B partition, 3=C partition, 4=D partition

○ **Keypad 4 Partition**
Address=31 04 < IP >
Default Value : 1=A partition, 2=B partition, 3=C partition, 4=D partition

8.5. USER SETTINGS

Arm/Disarm permissions of users can be restricted. User's Start/Finish Time(on selected Days), partitions, Keypads can be configured. Installer, Master and Duress code permissions can't be restricted.

8.5.1. Start Time

User can only start Arm/Disarm panel from beginning of start Time.

- **User-1 Start Time**

Address = 40 01 < MP >
To see value :
LED 40 01 (wait)
LCD 4-USER SETTINGS → START TIME → 01-START (wait)
TIME:
To change value :
LED 40 01 HH MM √
LCD 4-USER SETTINGS → START TIME → 01-START
TIME: HH MM √
HH = hours, MM = minutes
Default Value : 00:00
Example : To set Start time of User-1 to **08:00** do 40 01 **08 00** √

- **User-2 Start Time**

Address = 40 02 < MP >
Default Value : 00:00

- **User-3 Start Time**

Address = 40 03 < MP >
Default Value : 00:00

- **User-4 Start Time**

Address = 40 04 < MP >
Default Value : 00:00

- **User-5 Start Time**

Address = 40 05 < MP >
Default Value : 00:00

- **Guest Start Time**

Address = 40 06 < MP >
Default Value : 00:00

8.5.2. Finish Time

Arm/Disarm permission of user ends in Finish Time

- **User-1 Finish Time**

Address = 41 01 < MP >
To see value :
LED 41 01 (wait)
LCD 4-USER SETTINGS →FINISH TIME → FINISH (wait)
TIME:
To change value :
LED 41 01 HH MM √
LCD 4-USER SETTINGS →FINISH TIME → FINISH
TIME: HH MM √
HH = hours, MM = minutes
Default Value : 00:00
Example : To set Finish Time of User-1 to **18:00** do " 41 01 **18 00** √ "

- **User-2 Finish Time**

Address = 41 02 < MP >
Default Value : 00:00

- **User-3 Finish Time**

Address = 41 03 < MP >
Default Value : 00:00

- **User-4 Finish Time**

Address = 41 04 < MP >
Default Value : 00:00

- **User-5 Finish Time**

Address= 41 05 < MP >
Default Value : 00:00

- **Guest Finish Time**

Address = 41 06 < MP >
Default Value : 00:00

8.5.3. User Days

User can only Arm/Disarm panel on selected days.

1=Monday, 2=Tuesday, 3=Wednesday, 4=Thursday, 5=Friday, 6=Saturday, 7=Sunday

- **User-1 Days**

Address = 42 01 < MP >
To see value :
LED 42 01 (wait)
LCD 4-USER SETTINGS → DAYS → 01-AUTHORISED (wait)

To change value :
LED 42 01 S .....S √
LCD 4-USER SETTINGS → DAYS → 01-AUTHORISED
D.....D √
D = Multi choice selection(1, 2, 3, 4, 5, 6, 7)
Default Value : 1=ON, 2=ON, 3=ON, 4=ON, 5=ON, 6=ON, 7=ON
Example : To select days except Saturday and Sunday do
" 42 01 **1 (ON) 2 (ON) 3 (ON) 4 (ON) 5 (ON) 6 (OFF) 7 (OFF)** √ "

- **User-2 Days**

Address = 42 02 < MP >
Default Value : 1,2,3,4,5,6,7

- **User-3 Days**

Address = 42 03 < MP >
Default value : 1=ON, 2=ON, 3=ON, 4=ON, 5=ON, 6=ON, 7=ON

- **User-4 Days**

Address = 42 04 < MP >
Default Value : 1=ON, 2=ON, 3=ON, 4=ON, 5=ON, 6=ON, 7=ON

- **User-5 Days**

Address = 42 05 < MP >
Default Value : 1,2,3,4,5,6,7

- **Guest Days**

Address = 42 06 < MP >
Default Value : 1=ON, 2=ON, 3=ON, 4=ON, 5=ON, 6=ON, 7=ON

8.5.4. User Partitions

User can only Arm/Disarm his/her partition. Meaning of options is in the following.

1. option = A partition, 2. option = B partition, 3. option = C partition, 4. option=D partition
S.P.T. : 1.option= Interior, 2.option= Window, 3.option= Door, 4.option= Exterior
All partitions must be selected on S.P.T.(Look at page 34 for detailed description)

- **User-1 Partitions**

Address = 43 01 < MP >
To see value :

LED 43 01 (wait)
LCD 4-USER SETTINGS → PARTITIONS → 01-AUTHORISED (wait)

To change value :
LED 43 01 S .....S √
LCD 4-USER SETTINGS → PARTITIONS → 01-AUTHORISED
S.....S √
S = Multi choice selection(1, 2, 3, 4)
Default Value : 1=ON, 2=ON, 3=ON, 4=ON
Example : To select **A, B** partitions do
43 01 **1 (ON) 2 (ON) 3 (OFF) 4 (OFF)** √

- **User-2 Partitions**

Address = 43 02 < MP >
Default value : 1=ON, 2=ON, 3=ON, 4=ON

- **User-3 Partitions**

Address = 43 03 < MP >
Default Value : 1=ON, 2=ON, 3=ON, 4=ON

- **User-4 Partitions**

Address = 43 04 < MP >
Default Value : 1=ON, 2=ON, 3=ON, 4=ON

- **User-5 Partitions**

Address = 43 05 < MP >
Default Value : 1=ON, 2=ON, 3=ON, 4=ON

- **Guest Partitions**

Address = 43 06 < MP >
Default Value : 1=ON, 2=ON, 3=ON, 4=ON

8.5.5 User Keypads

User can only Arm/Disarm panel from his/her Keypads. Meaning of options is in the following;

1.option=1.keypad, 2.option =2.keypad, 3.option =3.keypad, 4. option = 4.keypad

- **User-1 Keypads**

Address = 44 01 < MP >
To see value :
LED 44 01 (wait)
LCD 4-USER SETTINGS → KEYPADS → 01-AUTHORISED (wait)

To change value :
LED 44 01 S .....S √
LCD 4-USER SETTINGS → KEYPADS → 01-AUTHORISED
S.....S √
S = Multi choice selection (1, 2, 3, 4)
Default Value : 1 = ON, 2 = ON, 3 = ON, 4 = ON
Example : To assign 1.keypad and 2.keypad to User-1 do
" 44 01 **1 (ON) 2 (ON) 3 (OFF) 4 (OFF)** √ "

- **User-2 Keypads**

Address = 44 02 < MP >
Default Value : 1 = ON, 2 = ON, 3 = ON, 4 = ON

- **User-3 Keypads**

Address = 44 03 < MP >
Default Value : 1 = ON, 2 = ON, 3 = ON, 4 = ON

- **User-4 Keypads**

Address = 44 04 < MP >
Default Value : 1 = ON, 2 = ON, 3 = ON, 4 = ON

- **User-5 Keypads**

Address = 44 05 < MP >
Default Value : 1 = ON, 2 = ON, 3 = ON, 4 = ON

- **Guest Keypads**

Address = 44 06 . < MP >
Default Value : 1 = ON, 2 = ON, 3 = ON

8.5.6. User Limitations

User permissions can be limited by the following addresses. Third and fourth options are only for Guest.

1.option User can not ARM	2.option User can not Disarm	3.option One time useable code(only for Guest)	4.option Daily Code (only for Guest)	5.option User can not make Bypass
Enable	Enable	Enable	Enable	Enable
Disable	Disable	Disable	Disable	Disable

- **User-1 Limitations**

Address= 45 01 < MP >
To see value :
LED 45 01 (wait)
LCD 4-USER SETTINGS → LIMITATIONS → 01-LIMITATIONS (wait)

To change value :
LED 45 01 S .....S √
LCD E-USER SETTINGS → LIMITATIONS → 01-LIMITATIONS
S .....S √
S = Multi choice selection (1, 2, 3, 4)
Default Value : 1=OFF, 2= OFF, 3= OFF, 4=OFF
Example : To cancel Disarm permission of User-1 do
" 45 01 **2 (ON)** √ "

- **User Limitations of User2 to User5**

Address : 45 02-05 < MP >
Default Value : All selections are OFF

- **Guest User Limitations**

Address : 45 06 < MP >
Default Value : 4 = 0N (Daily Code)

8.6. CENTRAL MONITORING STATION & USER PHONE DIALER SETTINGS

8.6.1. General Features

- **Main Settings**

Installer address of 50 01 includes main settings of dialing. Meanings of options are in the following table.

	1. option Central M. Station Dialing	2. option User Phone Dialer	4. option Cancel calls on disarm	5. option Alarm on phone line fail	6.option Confirm by single button	7. option Cancel calls on confirm	8. option Make alarm silence on confirm
ON	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
OFF	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled

Users can end dialing by only pressing (*) from phone if 6.option is selected. (This feature operates when panel calls user),user can not control or learn status of panel at this moment. Sirens continues to alarm even if user press (*).

If 7.opt ion in 50 01 is selected, panel cancels to call other phone numbers when taking confirmation(Each partition needs take confirmation to cancel their own calls).
If 8.option in 50 01 is selected, siren becomes silent after confirmation when panel calls user(panel continues to be armed).

Address = 50 01 < IP >
To see value :
LED 50 01 (wait)
LCD 5-COMMUNICATOR → GENERAL OPTIONS → GENERAL SETTINGS (wait)

To change value :
LED 50 01 S.....S √
LCD 5-COMMUNICATOR → GENERAL OPTIONS → GENERAL SETTINGS
S.....S √
S= Multiple choice selection
Default Value : All options are OFF
Example : To enable Central Monitoring Station dialing do
" 50 01 **1(ON)** √ "

Note: Central Monitoring Station dialing is enabled (1. option in 50 01) automatically when any of CMS number (05 01 ~ 05 04) is entered. User phone dialing is enabled (2. option in 50 01) automatically when any of user phone number (06 01 ~ 06 06) is entered.

○ **Dial Attempt**
Address = 50 02 < IP >
To see value :
LED 50 02 (wait)
LCD 5-COMMUNICATOR → GENERAL OPTIONS → DIAL ATTEMPTS (wait)

To change value :
LED 50 02 R R √
LCD 5-COMMUNICATOR → GENERAL OPTIONS → DIAL ATTEMPTS
R R √
RR = Dial attempt number (1 ~ 15)
Default value : 3
Example : To set dial attempt to **5** do " 50 02 **5** √ "

○ **Central Monitoring Station(CMS) Answer Wait Time**
Address = 50 03 < IP >
To see value :
LED 50 03 (wait)
LCD 5-COMMUNICATOR → GENERAL OPTIONS → ANSWER WAIT TIME (wait)

To change value :
LED 50 03 R R √
LCD 5-COMMUNICATOR → GENERAL OPTIONS → ANSWER WAIT TIME
R R TIMES √
RR = Ring Time between 10 and 60 in seconds
Default Value : 30
Example : To set time to 35 seconds do " 50 03 35 √ "

○ **Central Monitorin Station(CMS) Periodic Test Report Period**
Address = 50 04 < IP >
To see value :
LED 50 04 (wait)
LCD 5-COMMUNICATOR → GENERAL SETTINGS → TEST INTERVAL (wait)

To change value :
LED 50 04 R R √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → TEST INTERVAL
TT HOUR(S) √
TT = Periodic test time between 1 and 48 hours
Default Value : 6

Example : To set Periodic Test Report Interval to 24 hours do 50 04 **24** √

○ **Central Monitorin Station(CMS) Periodic Report Time**

Address = 50 05 < IP >
To see value :
LED 50 05 (wait)
LCD 5-COMMUNICATOR → GENERAL SETTINGS → FIRST TEST AT (wait)

To change value :
LED 50 05 R R √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → FIRST TEST AT
TT TT HOUR(S) √

TT TT= Periodic test first time
Default Value : 00:00
Example : To set Periodic Test First Time to 16:00 do 50 05 **1600** √

○ **Redialing Pause**

Address = 50 06 < IP >
To see value :
LED 50 06 (wait)
LCD 5-COMMUNICATOR → GENERAL SETTINGS → REDIALING PAUSE(wait)

To change value :
LED 50 06 R R √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → REDIALING PAUSE
TT SECOND(S) √

TT = Redialing Pause Interval
Default Value : 30 sec.
Example : To set Redialing Pause Interval to 30 sec. do 50 06 **30** √

○ **Central Monitoring Station-1(CMS-1) Format**

CMS-1 communication format is configured here. Meaning of data entered this address is in the following;

0 = Contact ID 1 = DTMF 4+2,4+1, 3+2, 3+1 50 07 address includes detailed settings)

Address: 50 07 < IP >
To see value :
LED 50 07 (wait)
LCD 5-COMMUNICATOR → GENERAL SETTINGS → CMS 1 FORMAT (wait)

To change value :
LED 50 07 F √
LCD 5-COMMUNICATOR → GENERAL SETTINGS→ CMS 1 FORMAT
[FORMAT] √
(Select using B(left) and C(right) buttons)

F = CMS format type, 0 ~ 1
Default Value : 0, Contact ID
Example: : To set CMS-1 contact as Contact ID do 50 07 **0** √

○ **Central Monitoring Station-2(CMS-2) Format**

CMS-1 communication format is configured here. Meaning of data entered this address is in the following;

0 = Contact ID 1 = DTMF 4+2,4+1, 3+2, 3+1 (50 08 address includes detailed settings)

Address = 50 08 F< IP >

To see value :
LED 50 08 (wait)
LCD 5-COMMUNICATOR→ GENERAL SETTINGS → CMS 2 FORMAT (wait)

To change value :
LED 50 08 F √
LCD 5-COMMUNICATOR→ GENERAL SETTINGS → CMS 1 FORMAT
[FORMAT] √
(Select using B(left) and C(right) buttons)

F = CMS format type, 0 ~ 1
Default Value : 0, Contact ID
To set CMS-2 contact as Contact ID do 50 08 **0** √

- **DTMF 4+2, 4+1, 3+2, 3+1 Format Settings**

Defines details of communication format of Central Monitoring Station if "1" is entered in 50 07-08.

	1. option **Account No Digit**	**2. option** **Message Code Digit**	**3. option** **Communication Frequency**
ON	3	1	20 Baud
OFF	4	2	10 Baud

CMS-1
Address= 50 09 < IP >
To see value :
LED 50 09 (wait)
LCD 5-COMMUNICATOR→GENERAL SETTINGS → 09- CMS 1 SETTINGS (wait)

To change value :
LED 50 09 F F F √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → 09- CMS 1 SETTINGS
F F F √
FFF = Multiple choice selection (1,2,3)
Default Value : 1=OFF, 2=OFF, 3=OFF
Example : To set format as 4+1 do
" 50 09 1(OFF) **2(ON)** √ "

CMS-2
Address= 50 10 < IP >
To see value :
LED 50 10 (wait)
LCD 5-COMMUNICATOR→ GENERAL SETTINGS → 10- CMS 2 SETTINGS (wait)
To change value :
LED 50 10 F F F √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → 10-CMS 2 SETTINGS
F F F √
F F F = Multiple choice selection (1,2,3)
Default Value : 1=OFF, 2=OFF, 3=OFF
Example : To set format as 3+2 do
50 10 1(ON) **2(OFF)** √

- **CMS Selection that Messages will be Sent**

This setting defines which events will be sent to which CMS. Arm/Disarm, alarms, bypass events, zon troubles are called related to their partitions.

Note: Keypad alarms(Panic, Fire, Duress, Tamper) aren't belong to any partition.

Meanings of Options in this address are in the following;
1.option = CMS-1 2.option = CMS-2

Events that is not belongs to any Partition
Address = 50 11 < IP >
To see value :
LED 50 11 (wait)
LCD 5-COMMUNICATOR→ GENERAL SETTINGS → COMMON CMS(wait)

To change value :
LED 50 11 S S √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → COMMON CMS
S S √
S S = Multi-choice selection 1, 2
Default Value : 1 =ON
Example : To send messages CMS-1 and CMS-2 do " 50 11 **1(ON) 2(ON)** √ "

Events that is belongs to A ~ D Partition
Address : 50 12-15 < IP >
Default Value : 1 (ON) (CMS-1)

- **User Phone Selection that Messages will be Sent to**

This setting defines which events will be sent to which Phone number. Arm/Disarm, alarms, bypass events, zon troubles are called related to their partitions.

Note: Keypad alarms(Panic, Fire, Duress, Tamper) aren't belong to any partition.

Meanings of options as following;

1. option **Tel-1**	**2. option** **Tel-2**	**3. option** **Tel-3**	**4. option** **Tel-4**	**5. option** **Tel-5**	**6. option** **Tel-6**
ON	ON	ON	ON	ON	ON
OFF	OFF	OFF	OFF	OFF	OFF

Events that is not belong to any Partition
Address : 50 16 < IP >
To see value :
LED 50 16 (wait)
LCD 5-COMMUNICATOR→ GENERAL SETTINGS → PARTITION A CMS (wait)

To change Value :
LED 50 16 S S S S S S √
LCD 5-COMMUNICATOR → GENERAL SETTINGS → PARTITION A CMS
S S S S S S √

S S S S S S : Multi-choice selection, (1, 2, 3, 4, 5, 6)
Default Value : All selection is ON
Example : To select all phones do
" 50 16 **1(ON) 2(ON) 3(ON) 4(ON) 5(ON) 6(ON)** √ "

Events belong to A ~ D Partition
Address = 50 17-20 < IP >
Default Value : All options are ON

8.6.2. Event Logs

Installer decides which event will be informed to Central M. Station1-2 and/or user1 to 5 and/or Memory. Events are separated into 3 groups. These are Alarms, Troubles, and Events. Meaning of options is in the following table.

1. option Call Central Station	3. option Call User Phone	8. option Record to Memory
ON	ON	ON
OFF	OFF	OFF

	1.option Call Central Station	2.option Call User Phone	3.option Send Restore Info to CMS	4.option Send Restore Info to Phone	5.option Record to Memory
ON	Yes	Yes	Yes	Yes	Yes
OFF	No	No	No	No	No

Keypad displays event logs in following order.

EE DD HH MM A B

EE : Event Code

DD : Day of event

HH MM: Time of event

A, B : Parameters

User parameters are recorded to memory as following;

0 = Installer 1= Master 2 = User-1 3 = User-2 4 = User-3 5 = User-4
6 = User-5 7 = Guest

○ **Intruder Alarm**
Address = 51 01 < IP >
To see value :
LED 51 01 (wait)
LCD 5-COMMUNCATOR → REPORT MASKS → 01-INTRUDER ALARM (wait)

To change value :
LED 51 01 S .....S √
LCD 5-COMMUNICATOR → REPORT MASKS→ 01-INTRUDER ALARM S .....S √
S = Multiple choice selection
Default Value : 1=ON, 2=ON, 3=ON, 5=ON
Example : To disable dialing Central M. Station do
" 51 01 **1 (OFF)** √ "

Event List is in the following table

No	Event	Address	Menu 5-COMMUNICATOR → REPORT MASKS →	Options	Parameter	Prg
1	Intruder Alarm	51 01	01-INTRUDER ALARM	1, 2, 3, 5	A= - , B=Zone	IP
2	Panic Alarm	51 02	02-PANIC ALARM	1, 2, 3, 5	A=Keypad , B=Zone	IP
3	Fire Alarm	51 03	03-FIRE ALARM	1, 2, 3, 5	A=Keypad , B=Zone	IP
4	Duress Alarm	51 04	04-DURESS ALARM	1, 2, 3, 5	A=Keypad- , B=Zone	IP
5	Sabotage-Tamper Alarm	51 05	05-TAMPER ALARM	1, 2, 3, 5	A=Keypad , B=Zone	IP
6	Medical Alarm	51 06	06-MEDICAL ALRM	1, 2, 3, 5	A= - , B=Zone	IP
7	Disarm by Duress	51 07	07-DURESS DISARM	1, 2, 5	A= - , B= -	IP

8	Disarm on Alarm	51 08	08- DISARM ON ALARM	1, 5	A=Keypad No B=User	IP
9	Zone Trouble	51 09	09-ZONE TROUBLE	1, 5	A= - , B=Zone	IP
10	AC Fail	51 10	10-MAINS FAILED	1, 3, 5	A= - , B= -	IP
11	Intrusion Verified	51 11	11-INTR. VERIFY	1, 5	A= - , B= -	IP
12	Cross Zone Fault	51 12	12-CROSS FAULT	1,5	A= - , B= -	IP
13	Battery Low	51 13	13-LOW BATTERY	1, 3, 5	A= - , B= -	IP
14	Line Fail	51 14	14-LINE FAIL	1, 3, 5	A= - , B= -	IP
15	Battery Fail	51 15	15- BATTRY FAIL	1, 3, 5	A= - , B= -	IP
16	Communication Fail	51 16	16-COM FAIL	Recorded to Memory	A= - , B= Tel. No	IP
17	Special Arm/Disarm	51 17	17- SPECIAL ARM/ SPECIAL DISARM	1, 3, 5	A= Type of Arm/Disarm (1) B= -	IP
18	Arm/Disarm	51 18	18-ARMED/ DISARMED	1, 3, 5	A= Type of Arm/Disarm (2) B= User	IP
19	Bypassed	51 19	19-BYPASSED/ BYPASS CANCEL	1, 3, 5	A= - , B= User	IP
20	Entering Program	51 20	20-PROG BEGIN	1, 5	A= - , B= User	IP
21	Exiting Program	51 21	21-PROG END	1, 5	A= - , B= -	IP
22	Periodic Report	51 22	22-PER. REPORT	1	A= - , B= -	IP
23	Panel Restarted	51 23	23-PANEL RESTART	5	A= - , B= -	IP
24	Manual Report	51 24	24-MANUAL TEST	No need to set	A= - , B= -	IP
25	---	51 25	25-RESERVED	-	-	IP
26	---	51 26	26-RESERVED	-	-	IP
27	----	51 27	27-RESERVED	-	-	
28	---	51 28	28-RESERVED	-	-	IP
29	---	51 29	29-RESERVED	-	-	IP
30	Custom Alarm	51 30	30-CUSTOM EVENT	1, 2, 5	A= - , B= -	IP
31	---	51 31	31-RESERVED	-	-	IP
32	Defaults Loaded (3)	51 32	32-DEFS LOADED	5	A= Source of Reset B= Type of Reset	IP
33	Intruder Alarm Restored	-	-	-	A= - , B=Zone	IP
34	Panic Alarm Restored	-	-	-	A= - , B=Zone	IP
35	Fire Alarm Restored	-	-	-	A= - , B=Zone	IP
36	Duress Alarm Restored	-	-	-	A= - , B=Zone	IP
37	Sabotage-Tamper Alarm Restored	-	-	-	A= - , B=Zone	IP
38	Medical Alarm Restored	-	-	-	A= - , B=Zone	IP

39-41	----	-	-	-	-	IP
42	AC Restored	-	-	-	A= - , B= -	IP
43-44	---	-	-	-	-	IP
45	Battery Restored	-	-	-	A= - , B= -	IP
46	Phone Line Restored	-	-	-	A= - , B= -	IP
47	Battery Connected/Restored	-	-	-	A= - , B= -	IP
48	---	-	-	-	-	IP
49	Special Arming	-	-	-	A= Arming Type (1) B= -	IP
50	Alarm Armed	-	-	-	A= Keypad No/ Parameter,(2) B= User No	IP
51	Bypass Canceled	-	-	-	A= - , B= Zone	IP
52-62	---	-	-	-	-	IP

Note: (1) A = 1 (Quick Arm)
2 (Arming on No Activity)
3 (Automatic Arm/Disarm)
4 (Arm/Disarm by Key input)
7 (Arm/Disarm by remote controller)

(2) A = 1 (Arm/ Disarm by Keypad 1)
2 (Arm/ Disarm by Keypad 2)
3 (Arm/ Disarm by Keypad 3)
4 (Arm/ Disarm by Keypad 4)
5 (Arm/ Disarm by phone)
6 (Arm/ Disarm by PC)

(3) A = 0 (Factory Defaults have been loaded by Keypad)
1 (Factory Defaults have been loaded by Vapman)

B = 1 (Codes have been returned to factory defaults)
2 (Panel Settings have been returned to factory defaults)
3 (Both Panel Settings and Codes have been returned to factory defaults)

8.6.3. Contact ID Event Codes

These codes are sent to Central Monitoring Station. If codes used by Central Monitoring Station are different from default codes, enter new codes to panel.

Default Communication Format is **Contact ID**

VAP404 event-codes constitute of 4 digits. Meaning of parameters is in the following.

Zone parameters;

001 = Zone 1 002 = Zone 2 003 = Zone 3 004 = Zone 4 ..... 008=Zone 8

Parameter of Keypad Panic, Fire, Duress and Keypad Tamper alarm is “000”. Paremeter of Remote Controller Panic alarm is “000”.

User parameters:
000 = Installer 001 = Master 002 = User-1 003 = User-2 004 = User-3 005 = User-4
006 = User-5 007 = Guest

Default Contact ID codes can be changed as below.

- **Intruder Alarm Code**

Address = 52 01 . < IP >
To see value :
LED 52 01 (wait)

LCD 5-COMMUNICATOR → 52-CONTACT ID CODES → 01-INTRUDER ALM (wait)

To change value :
LED 52 01 RRRR √
LCD 5-COMMUNICATOR → 52- CONTACT ID CODES → 01-INTRUDER ALM
RRRR √
RRRR = 4 digit event code
Default Value = 1130
Example : To set code as default value do " 52 01 **1130** √ "
List of event codes is in the following table

No	Event	Address	Menu 5-COMMNUNICATOR → CONTACT ID CODES →	Event Codes (Default Value)	Parameter	Prg
1	Intruder Alarm (R) (1)	52 01	01-INTRUDER ALARM	1130	Zone	IP
2	Panic Alarm (R)	52 02	02-PANIC ALARM	1120	Zone	IP
3	Fire Alarm (R)	52 03	03-FIRE ALARM	1110	Zone	IP
4	Duress Alarm (R)	52 04	04-DURESS ALARM	1120	Zone	IP
5	Sabotage-Tamper Alarm (R)	52 05	05-TAMPER ALARM	1144	Zone	IP
6	Medical Alarm (R)	52 06	06-MEDICAL ALRM	1100	Zone	IP
7	Disarm by Duress	52 07	07-DURESS DISARM	1121	-	IP
8	Disarm on Alarm	52 08	08- DISARM ON ALARM	1406	-	IP
9	Zone Trouble	52 09	09-ZONE TROUBLE	1372	Zone	IP
10	AC Fail (R)	52 10	10-MAINS FAILED	1301	-	IP
11	Intrusion Verifier	52 11	11-INTR. VERIFY	1139	-	IP
12	Cross Zone Fault	52 12	12- CROSS FAULT	1378	-	IP
13	Battery Low (R)	52 13	13-LOW BATTERY	1302	-	IP
14	Line Fail (R)	52 14	14-LINE FAIL	1351	-	IP
15	Battery Fail (R)	52 15	15- BATTRY FAIL	1302	-	IP
16	Communication Fail	52 16	16-COM FAIL	It is not sent to CMS	-	IP
17	Special Arm/Disarm (R) (2)	52 17	17- SPECIAL ARM/ SPECIAL DISARM	1400	Parameter	IP
18	Arm/Disarm (R)	52 18	18-ARMED/ DISARMED	1402	User	IP
19	Bypassed (R)	52 19	19-BYPASSED/ BYPASS CANCEL	1570	Zone	IP
20	Entering Program	52 20	20-PROG BEGIN	1627	User	IP
21	Exiting Program	52 21	21-PROG END	1628	-	IP
22	Periodic Report	52 22	22-PER. REPORT	1602	-	IP
23	Panel Restarted	52 23	23-PANEL RESTART	1305	-	IP
24	Manual Report	52 24	24-MANUAL TEST	1601	-	IP
25	---	52 25	25-RESERVED	-	-	IP
26	---	52 26	26-RESERVED	-	-	IP
27	----	52 27	27-RESERVED	-	-	IP

28	---	52 28	28-RESERVED	-	-	IP
29	---	52 29	29-RESERVED	-	-	IP
30	Custom Alarm (R)	52 30	30-CUSTOM EVENT	0000	Zone	IP
31	---	52 31	31-RESERVED	-	-	IP
32	Defaults Loaded	52 32	32-DEFS LOADED	0000	Type of Reset (3)	IP

Note: (1) "(R) " icon shows that restore code of event is automatically recorded and sent to CMS if it is selected in 51 XX.

(2) Special Arm/Disarm code is sent to Central Monitoring Station on Quick Arm, Arming on no activity, Automatic Arm/Disarm, Arm/Disarm by key, Arm/Disarm by Remote Controller.

(3) Type of reset 1= Codes have been returned to factory defaults.
2= Panel Settings have been returned to factory defaults.
3= Both Panel Settings and Codes have been returned to factory defaults.

8.6.4. DTMF 4+2,etc Event Codes

These codes are sent to Central Monitoring Station. Use following table to enter or read hexadecimal data,

	Enter	Read(VPC108)
A	1 (press long)	0 and 1
B	2 (press long)	0 and 2
C	3 (press long)	0 and 3
D	4 (press long)	0 and 4
E	5 (press long)	0 and 5
F	6 (press long)	0 and 6

Example: To enter " A3 ", press A(long) then press 3
While reading data, 0 and 1 (together) then 3 lights in VPC108 Keypad.

○ **Intruder Alarm Code**
Address = 53 01 . < IP >
To see value :
LED 53 01 (wait)
LCD 5-COMMUNICATOR → 53-4+2 CODES → 01-INTRUDER ALM (wait)

To change value :
LED 53 01 RR √
LCD 5-COMMUNICATOR → 53 4+2 CODES → 01-INTRUDER ALM
RR √

RR = event code
Example : To set code as D1 do " 53 01 4(long) 1 √ "

Note: If the second digit of event code is "0" , the following parameters in the table are sent to the CMS.

No	Event	Address	Menu 5-COMMNUNICATOR → 4+2 CODES →	Event Codes	Parameter	Prg
1	Intruder Alarm	53 01	01-INTRUDER ALARM		Zone	IP
2	Panic Alarm	53 02	02-PANIC ALARM		Zone	IP
3	Fire Alarm	53 03	03-FIRE ALARM		Zone	IP
4	Duress Alarm	53 04	04-DURESS ALARM		Zone	IP
5	Sabotage-Tamper Alarm	53 05	05-TAMPER ALARM		Zone	IP
6	Medical Alarm	53 06	06-MEDICAL ALRM		Zone	IP
7	Disarm by Duress	53 07	07-DURESS DISARM		-	IP
8	Disarm on Alarm	53 08	08- DISARM ON ALARM		-	IP

9	Zone Trouble	53 09	09-ZONE TROUBLE		Zone	IP
10	AC Fail	53 10	10-MAINS FAILED		-	IP
11	Intrusion Verifier	53 11	11-INTR. VERIFY		-	IP
12	Cross Zone Fault	53 12	12- CROSS FAULT		-	IP
13	Battery Low	53 13	13-LOW BATTERY		-	IP
14	Line Fail	53 14	14-LINE FAIL		-	IP
15	Battery Fail	53 15	15- BATTRY FAIL		-	IP
16	Communication Fail	53 16	16-COM FAIL		-	IP
17	Special Arm/Disarm (1)	53 17	17- SPECIAL ARM/ SPECIAL DISARM		Parameter	IP
18	Arm/Disarm	53 18	18-ARMED/ DISARMED		User	IP
19	Bypassed	53 19	19-BYPASSED/ BYPASS CANCEL		Zone	IP
20	Entering Program	53 20	20-PROG BEGIN		User	IP
21	Exiting Program	53 21	21-PROG END		-	IP
22	Periodic Report	53 22	22-PER. REPORT		-	IP
23	Panel Restarted	53 23	23-PANEL RESTART		-	IP
24	Manual Report	53 24	24-MANUAL TEST		-	IP
25	---	53 25	25-RESERVED		-	IP
26	---	53 26	26-RESERVED		-	IP
27	----	53 27	27-RESERVED		-	IP
28	---	53 28	28-RESERVED		-	IP
29	---	53 29	29-RESERVED		-	IP
30	Custom Alarm	53 30	30-CUSTOM EVENT		Zone	IP
31	---	53 31	31-RESERVED		-	IP
32	Defaults Loaded	53 32	32-DEFS LOADED		Type of Reset	IP
33	Intruder Alarm Restored	-	33-ZONE NORMAL		Zone	IP
34	Panic Alarm Restored	-	34-RESERVED		Zone	IP
35	Fire Alarm Restored	-	35- RESERVED		Zone	IP
36	Duress Alarm Restored	-	36- RESERVED		Zone	IP
37	Sabotage-Tamper Alarm Restored	-	37- RESERVED		Zone	IP
38	Medical Alarm Restored	-	38- RESERVED		Zone	IP
39-41	----	-	-		-	IP
42	AC Restored	-	42-MAINS RESTO.		-	IP

43-44	---	-	-		-	IP
45	Battery Restored	-	45-BATT. FULL		-	IP
46	Phone Line Restored	-	46-LINE RESTORE		-	IP
47	Battery Connected/Restored	-	47-BATT.NORMAL		-	IP
48	---	-	-		-	IP
49	Special Arming	-	49-SPECIAL ARM		-	IP
50	Alarm Armed	-	50-ARMED		User	IP
51	Bypass Canceled	-	51-BYPASS CANCL		Zone	IP
52-62	---	-	-		-	IP

Note: (1) Special Arm/Disarm code is sent to Central Monitoring Station on Quick Arm, Arming on no activity, Automatic Arm/Disarm, Arm/Disarm by key, Arm/Disarm by Remote Controller.

8.7. OPTIONAL MODULES

8.7.1 . Remote Control Module

Installer can enable or disable RF module. Meaning of option is in the following table.

1. option **Remote Control Module**	**2.option** **Siren alarm on Panic**
ON = Enabled	ON = Enabled
OFF= Disabled	OFF = Disabled

Address = 60 01 < IP >
To see value :
LED 60 01 (wait)
LCD 6-MODULES → REM. CONT. OPTNS → REM. CONT. OPTNS (wait)

To change value :
LED 60 01 S √
LCD 6-MODULES → REM. CONT. OPTNS → REM. CONT. OPTNS
S S √
S = ON/OFF
Default Value : OFF
Example : To enable Remote Control Module do
" 60 01 1 **(ON)** √ "

8.7.2. Zone Expansion Module

Installer can enable or disable Zone module. Meaning of option is in the following table.

1. option **Zone Module**
ON = Enabled
OFF = Disabled

Address = 61 01 < IP >
To see value :
LED 61 01 (wait)
LCD 6-MODULES → EXP ZONE SETTING → 01-EXP ZONE SETTING (wait)

To change values :
LED 61 01 S .....S √
LCD 6-MODULES → EXP ZONE SETTING → 01-EXP ZONE SETTING
S √
S = ON/OFF
Default Value : OFF
Example : To enable Zone Module do
" 61 01 **1 (ON)** √ "

8.8. KEYPAD INNER SETTINGS

These settings are recorded to Keypad Memory. Do these settings on which keypads inner settings you want to change. Addresses of Inner Settings are different in LED and LCD keypads.

8.8.1 VPC108 Led Keypad Inner Settings

- **Open Chime**

Chime activates when selected zone is opened.

1. Option=1. Zone, 2. Option=2. Zone, 3. Option=3. Zone, 4. Option=4. Zone
5. Option=5. Zone, 6. Option=6. Zone, 7. Option=7. Zone, 8. Option=8. Zone

Address = 99 01 < IP, MP >
To see value : LED 99 01 (wait)
To change value : LED 99 01 S.....S √
S = Multiple choice selection
Default Value : All chimes are closed.
Example : If you want chime when zone1 and zone 3 are opened, do
" 99 01 **1(ON) 3(ON)** √ "

- **Close Chime**

Chime activates when selected zone is closed.

1. Option=1. Zone, 2. Option=2. Zone, 3. Option=3. Zone, 4. Option=4. Zone
5. Option=5. Zone, 6. Option=6. Zone, 7. Option=7. Zone, 8. Option=8. Zone

Address = 99 02 < IP, MP >
To see value : LED 99 02 (wait)
To change value : LED 99 02 S .....S √
S = Multiple choice selection
Default Value : All chimes are closed.
Example : If you want chime when zone 1 and zone 4 are closed do
" 99 02 **1(ON) 4(ON)** √ "

- **Backlight zones**

Backlight is seen when selected zone is opened.

1. option=1. Zone, 2. Option=2. Zone, 3. Option=3. Zone, 4. Option=4. Zone
5. option=5. Zone, 6. Option=6. Zone, 7. Option=7. Zone, 8. Option=8. Zone

Address = 99 03 < IP, MP >
To see value : LED 99 03 (wait)
To change value : LED 99 03 S .....S √
S = Multiple choice selection
Default Value : 1 = 1.zone
Example : To activate backlight of zone 1 and zone 2 do
" 99 03 **1(ON) 2(ON)** √ "

- **Emergency Buttons**

Panic, Fire, Duress buttons can be closed to usage. Meanings of options are in the following.

1. option = Panic (Panic), 2. option=Fire, 3. option= Duress, 4.option= Keypad Tamper

Address = 99 04 < IP, MP >
To see value : LED 99 04 (wait)
To change value : LED 99 04 S .....S √
S= Multiple choice selection
Default Value : 1= ON , 2= ON, 3= ON , 4= ON
Example : To disable Fire button of Keypad do
" 99 03 **2(OFF)** √ "

- **Warning Beeps**

Keypad warning beeps can be closed in this address. Meaning of options is in the following.
1. option = Exit Delay beep, 2. option = Arm beep , 3.option = Alarm beep,
4. option = Trouble beep, 5. option = Button click beep, 6.option = Confirmation beep

Address = 99 05 < IP, MP >
To see value : LED 99 05 (wait)
To change value : LED 99 05 S .....S √
S = Multiple choice selection
Default Value : All beeps are active
Example : To silent Trouble Beep do
" 99 05 **4 (OFF)** √ "

- **Trouble Beeps**

Trouble beeps can be closed in this address. Meaning of options is in the following.

1. option= AC fail, 2. option = Low Battery ,3. option=Time-date loss,
4.option = Telephone Line fail 5. option = Zone trouble 6.option = Battery loss

Address= 99 06 < IP, MP >
To see value : LED 99 06 (wait)
To change value : LED 99 06 S.....S √
S = Multiple choice selection
Default value : All beeps are active
Example : To silent telephone line fail do
" 99 06 **4(OFF)** √ "

8.8.2. VPC301 LCD Keypad Inner Settings

- **Open Chime**

Chime activates when selected zone is opened.

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE→ CHIME ON 1-8 (wait)
ZONES:
To change value :

LCD 3-KEYPAD SETTING → CUSTOMISE → CHIME ON 1-8
ZONES: S .....S √

S = Multiple choice selection
Default Value : All chimes all closed
Example : To activate open chime of 1. zone do
LCD 3-KEYPAD SETTING → CUSTOMISE → CHIME ON 1-8
ZONES: 1**(ON)** √

- **Close Chime**
  Chime activates when selected zone is closed.

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE →CHIME OFF 1-8 (wait)
ZONES:

To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE →CHIME OFF 1-8
ZONES: S .....S √
S = Multiple choice selection
Default Value : All chimes are closed
Example : To activate close chime of 1. zone do
LCD 3-KEYPAD SETTING → CUSTOMISE → CHIME OFF 1-8
ZONES: **1(ON)** √

- **Backlight Zones**

Backlight is seen when selected zone is opened.

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE → LIGHT Z. 1-8 (wait)
ZONES:
To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE → LIGHT Z. 1-8
ZONES: S .....S √
S = Multiple choice selection
Default value : 1
Example : To activate backlight of zone1 and zone 2
LCD 3-KEYPAD SETTING → CUSTOMISE → LIGHT Z. 1-8
ZONES: **1 (ON) 2 (ON)** √

- **Emergency Buttons**

Panic, Fire, Duress buttons and Keypad Tamper can be closed to usage. Meanings of options are in the following.

1.option = Panic , 2. option = Fire , 3. option = Duress , 4. option = Keypad Tamper

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE → BUTTONS (wait)

To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE → BUTTONS
S .....S √
S= Multiple choice selection
Default Value : All emergency buttons are active
Example : To disable fire button of Keypad
LCD 3-KEYPAD SETTING→ CUSTOMISE→ BUTTONS
2 (OFF) √

- Sound Options

Keypad warning beeps can be closed in this address. Meaning of options is in the following.

1. Option = Exit Delay beep, 2. option = Arm beep , 3.option = Alarm beep,
4. Option = Trouble beep, 5. option = Button click beep, 6.option = Confirmation beep

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE → SOUND OPTION (wait)

To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE → SOUND OPTION
S .....S √
S = Multiple choice selection
Default Value : All beeps are active
Example : To silent Button click do
LCD 3-KEYPAD SETTING→ CUSTOMISE→ SOUND OPTIONS
5 **(OFF)** √

- **Trouble Beeps**

Trouble beeps can be closed in this address. Meaning of options is in the following.

1. option= AC fail, 2. option = Low Battery ,3. option=Time-date loss,
4.option = Telephone Line fail 5. option = Zone trouble 6.option = Battery loss

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE → TROUBLE OPTN (wait)
To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE → TROUBLE OPTN
S .....S √
S = Multiple choice selection
Default value : All beeps are active
Example : To silent telephone line fail do
LCD 3-KEYPAD SETTING→ CUSTOMISE→ TROUBLE OPTN
4 **(OFF)** √

- Language Selection

Language of LCD Screen is configured in this address.

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE → LANGUAGE (wait)

To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE → LANGUAGE
[XXXXXXXXX] √
Press B(left) and C(right) buttons to select language.

- **Thermometer Setting**

Calibration of thermometer value is made in this address. This value is calibrated as a default.

< IP, MP >
To see value :
LCD 3-KEYPAD SETTING → CUSTOMISE → TEMP CALIB. (wait)

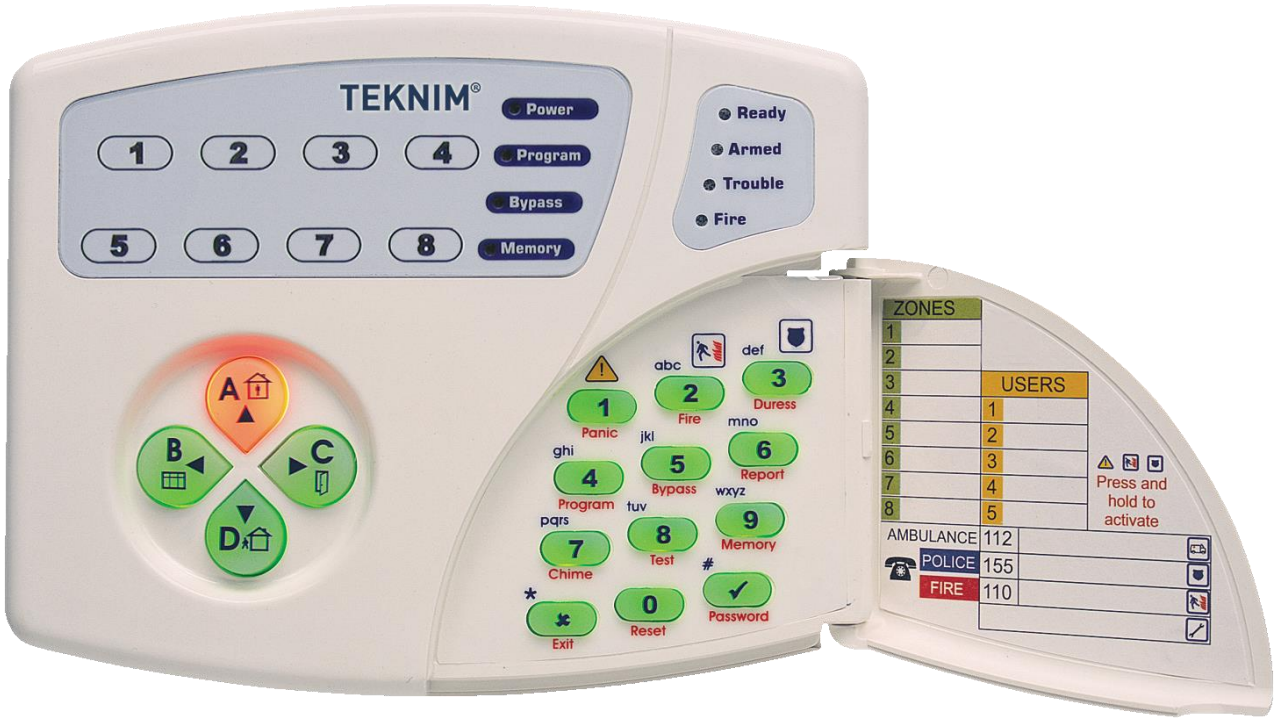
To change value :
LCD 3-KEYPAD SETTING → CUSTOMISE→ TEMP CALIB.
R R R √
RRR Calibration value(0 ~ 255)
Default Value : 10
Example: To set calibration value as 9 do
LCD 3-KEYPAD SETTING→ CUSTOMISE→ TEMP CALIB.
9 √

9. KEYPAD INSTRUCTION

9.1. LED KEYPAD – VPC108

9.1.1 Features

- Zone number : 8
- Partition number : 4
- Programmable backlight
- Programmable chime
- Partial Arm / Disarm
- Lights to display Reports(**Power, Program, Bypass, Memory, Ready, Armed, Trouble, Fire**).
- Lights that displays zone and partition status
- All numbers can be displayed by leds
- **Test**, **Bypass**, **Report**, **Memory**, **Chime, Program** buttons ease usage
- **Panic, Fire, Duress** buttons provides easily going into alarm
- Tamper protection without additional cable
- Keypad blocking system for 1 minute when password is entered wrongly 5 times



9.1.2. Usage

VPC108 provides arming and programming panel by using buttons and lights. When you push buttons long , second function of that button is activated. If you changes values correctly, two short beep is heard. If value couldn't be changed , long beep is heard.

In programming mode when you enter 4 digit address data, you can see and change value of that address. Press X(Exit) button to exit programming mode. After changing value, enter "√" button to confirm new value.

Zone lights displays number of digits that is entered while entering number or displays options in single-choice or multi-choice selection.

In Installer Program;
Ready light that is flashing means that keypad is waiting you to enter address,
Armed light that is flashing means that keypad is waiting you to enter value and Trouble and Fire lights that lights together with Armed light identifies the type of value that user will enter.

Trouble	Fire	Type of Value
Off	Off	Number
Flashing	Off	Single Choice
Off	Flashing	Multiple Choice

User presses its number to select/unselect option.

Enter 4 digit address value to reach specific address.
Example: 01 02
If you enter wrong address, you will hear short beep and see that Trouble and 1.zone led flashing. To learn meanings of Troubles, look at Trouble Codes Section.

To exit address, press X button.

When you enter address, you see value in that address and when keypad displays last digit of value in that address, all zone leds flashes and start displaying value of address from the beginning.

To change values in address, enter new value and press √ button. If correct value is entered, you hear that 2
short beep otherwise you hear long beep and see trouble led flashing. To learn meanings of Troubles, look at Trouble Codes Section.

9.1.3. Functions of Buttons

BUTTON	MAIN FUNCTION	SECONDARY FUNCTION
1	“1”	Panic
2	“2”	Fire
3	“3”	Duress
4	“4”	Program – To enter programming mode
5	“5”	Bypass
6	“6”	Report
7	“7”	Chime – Open/Close Chime function
8	“8”	Test
9	“9”	Memory –To display event log
0	“0”	Reset – To disarm fire alarm
X	Cancel	Exit
√	OK	Password – To change passwords
A	Selects A Partition or zones except inner zones	Arms A Partition or zones except inner zones
B	Selects B Partition or Windows	Arms B Partition or Windows
C	Selects C Partition or Doors	Arms C Partition or Doors
D	Selects D Partition or all zones	Arms D Partition or all zones

NOTE: Secondary functions of buttons are activated by pressing button long.

9.1.4. Meanings of Beep Sounds

BEEP	MEANING
Long single beep	Trouble on last operation
Two short beep	Confirmation of operation
Periodic short beep	Enter/Exit time
Periodic long beep	Alarm

9.1.5. Meaning of lights

LIGHT	MAIN FUNCTION	SECONDARY FUNCTION	TROUBLE MEANING(Together with trouble light)
1-8	Motion detect	Displays values in programming mode	Look at Trouble Code
Power	AC Power detect	-	No AC Power
Program	Displays you are in programming mode	-	Battery is in low level (with Power led)
Bypass	There is bypassed zones in Panel	"0"	Time, date trouble
Memory	Displays event log	"9"	No Telephone line
Ready	Panel is ready to Arm	-	-
Armed	Panel is Armed	-	-
Trouble	There is a trouble in Panel	-	-
Fire	Fire alarm	-	-
A, B, C, D	Motion detect on that Partition	Display Partitions you have selected	-

9.1.6. Keypad Addresses

Look at PROGRAMMING SETTINGS Section.

9.1.7. Keypad Inner Settings

Look at DETAILED PROGRAMMING Section.

9.1.8. Reports

Keypad displays kind of reports when you press following buttons.

6 (Report)(long) 1 Displays Armed zones and Partitions
6 (Report)(long) 2 Displays last zone and partition that alarms
6 (Report)(long) 3 Displays active PGMs
6 (Report)(long) 4 Displays Keypad address
6 (Report)(long) 5 Displays bypassed zones and partitions
6 (Report)(long) 6 Displays troubles

9.1.9. Troubles

A trouble will be indicated by trouble light that will remain ON until trouble condition is cleared. To view the type of trouble, press 6 (Report)(long) 6. If **Power** light flashes with Trouble light, it indicates that AC Power has lost. If **Power** and **Program** light flashes with Trouble light, it indicates low battery. If **Bypass** light flashes with Trouble light, it indicates loss of time on system clock. If **Memory** light flashes, it indicates telephone line trouble.

Type of Troubles is on the following table when zone leds lights with Trouble light.

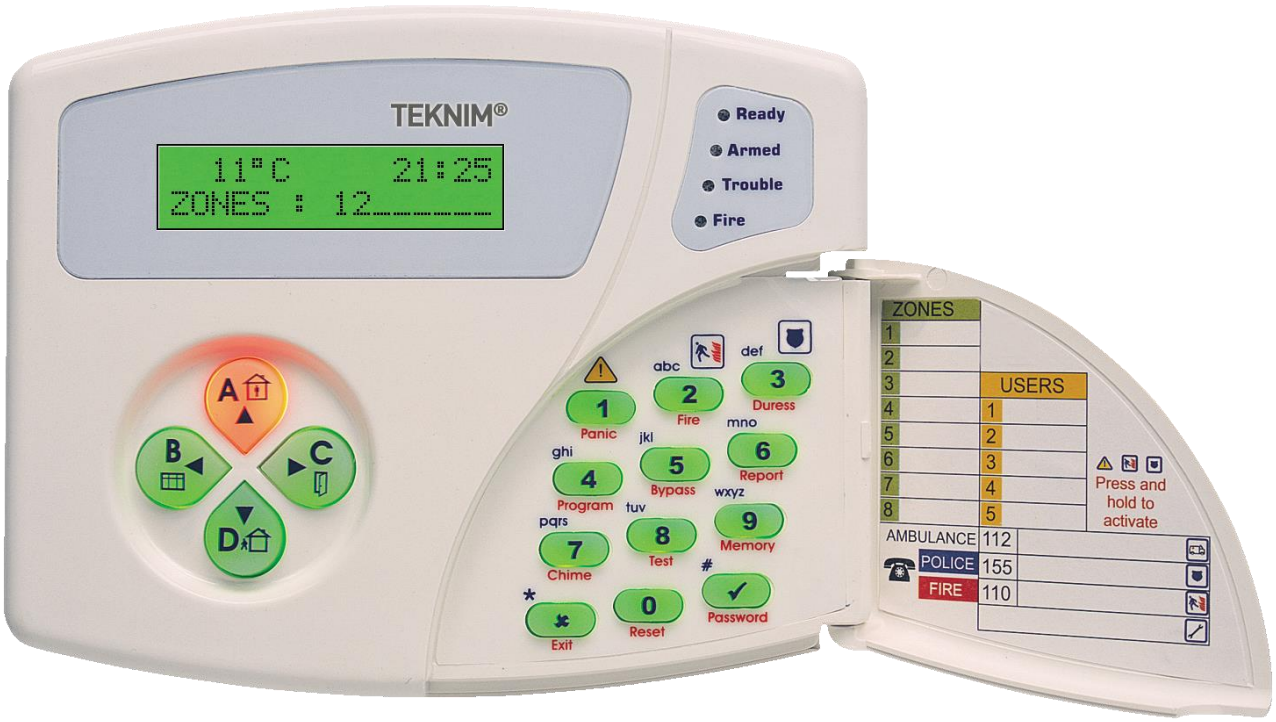
TROUBLES	**Zone lights**								**Reason**
Type of Trouble	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	
Invalid address	•								Invalid address has been entered.
Invalid data		•							Data that has been entered doesn't like as expected.

No permission			•						Your permissions are limited.
Panel can not be armed				•					There is active zone.
Panel has already been armed					•				Partitions that are wanted to arm have already been armed.
Invalid Password						•			Wrong password has been entered.
Out of limit							•		Value that is entered is out of limit.
Length of data is wrong								•	Length of data that you have entered is wrong.
Feature is closed	•	•							Feature you have tried to use is closed.
Invalid function			•	•					You have tried to use function that is not available.
Invalid parameter					•	•			Parameter of function you try to use is invalid. Example: If you try to test 3. Central M. Station, keypad displays this trouble.
Out of time limit							•	•	If user tries to use keypad out of his/her time limit, keypad displays this trouble.
Not allowed in this keypad	•	•	•	•					User is not allowed in this keypad.
Invalid setting					•	•	•	•	Setting you have made doesn't like as expected.
Unknown error		•		•		•		•	Trouble is not known.
Communication error	•	•	•	•	•	•	•	•	Keypad can't communicate with panel.

9.2. LCD KEYPAD – VPC301

9.2.1. Feature

- Zone number : 16
- Partition number : 4
- Programmable backlight
- Programmable chime
- Partial Arm/Disarm
- **Ready, Armed, Trouble, Fire** lights to display Status information
- Lights that display partition status
- **Test**, **Bypass**, **Report**, **Memory**, **Chime, Program** buttons ease usage
- Panic, Fire, Duress buttons provides easily going into alarm
- Time/Date, Temperature display on screen
- Tamper protection without additional cable
- Keypad blocking system for 1 minute when password is entered wrongly 5 times



9.2.2. Usage

VPC301 has LCD screen. You manage panel by buttons and LCD screen. When you press buttons shortly, you hear short beep and main function of button is activated. When you press buttons long, second function of buttons is activated. If you changes values correctly, two short beep is heard. If value couldn't be changed , long beep is heard.

You can explore menus by ▲ and ▼ buttons. To enter any menu, press √ button. To exit menu press, **X** button. When entered sub-menu, use ▲ and ▼ buttons to explore sub-menu again, press √ button to enter address, press **X** button to exit address. If you change value in that address, enter value and press √ button.

While entering numbers, number you entered is displayed on LCD screen.

When single-choice or multi-choice options, enter number you want to active. Then you see number you have entered in screen.

If you entered invalid address, you see "INVALID ADDRESS" on the screen.

Press **X** button to exit address. When you enter address, value in that address is displayed on screen. If you want to change value, enter new value and press √ button then you hear two short beep if you enter correct data. If you enter invalid data, you hear long beep and keypad displays trouble messages.

9.2.3. Functions of Buttons

BUTTON	MAIN FUNCTION	SECONDARY FUNCTION
1	"1"	Panic
2	"2"	Fire
3	"3"	Duress
4	"4"	Program – To enter programming mode
5	"5"	Bypass
6	"6"	Report
7	"7"	Chime – Open/Close Chime function
8	"8"	Test
9	"9"	Memory –To display event log
0	"0"	Reset – To disarm fire alarm

X	Cancel	Exit
√	OK	Password – To change password
A	Selects A Partition or zones except inner zones	Arms A Partition or zones except inner zones
B	Selects B Partition or Windows	Arms B Partition or Windows
C	Selects C Partition or Doors	Arms C Partition or Doors
D	Selects D Partition or all zones	Arms D Partition or all zones

Also A,D,B,C buttons are used as arrow buttons while exploring menu.

9.2.4. Meaning of Beep Sounds

BEEP	MEANING
Long single beep	Trouble on last operation
Two short beep	Confirmation of operation
Periodic short beep	Enter/Exit time
Periodic long beep	Alarm

9.2.5. Meanings and functions of lights

LIGHT	MAIN FUNCTION	SECONDARY FUNCTION
Ready	Panel is ready to Arm	-
Armed	Panel is Armed	-
Trouble	There is a trouble in Panel	-
Fire	Fire alarm	-
A, B, C, D	Motion detect on that Partition	Display Partitions you have selected.

9.2.6. Keypad Addresses

Look at Keypad Configurations Part in Programming Settings.

9.2.7. Keypad Inner Settings

Look at Keypad Configurations Part in Programming Settings.

9.2.8. Reports

Keypad displays kind of reports when you press following buttons.
6 (Report)(long) 1 Displays Armed zones and Partitions
6 (Report)(long) 2 Displays last zone and partition that alarms
6 (Report)(long) 4 Displays Keypad address
6 (Report)(long) 5 Displays bypassed zones and partitions
6 (Report)(long) 6 Displays troubles

9.2.9. Troubles

A trouble will be indicated by trouble light that will remain ON until trouble condition is cleared and type of troubles is displayed on screen sequentially.

Type of troubles is on the following table.

TROUBLE MESSAGES	Reason
Invalid address	Invalid address has been entered
Invalid data	Data that has been entered doesn't like as expected
No permission	Your permissions are limited

Panel can't be armed	There is active zone.
Panel has already been armed	Partitions that are wanted to arm have already been armed.
Invalid password	Invalid password has been entered
Out of limit	Value that is entered is out of limit.
Length of data is wrong	Length of data that you have entered is wrong.
Feature is closed	Feature you have tried to use is closed.
Invalid function	You have tried to use function that is not available.
Invalid parameter	Parameter of you try to use is invalid. Example: If you try to test 3.Central M. Station, keypad displays this trouble.
Out of time limit	If user tries to use keypad out of his/her time limit, keypad displays this trouble.
Not allowed in this keypad	User is not allowed in this keypad
Invalid setting	Setting you have made doesn't like as expected
Unknown error	Trouble is not known.
Communication error	Keypad can't communicate with panel.

MAINTENANCE ON YOUR OWN

Do not try to fix the device on your own, Removal of cover may end up with electricity shock.

In case of any defect or malfunction, contact with your dealer or with authorized service. All the technical interventions has to be done by technicians of service company. Device must be cleaned up with a dry fabric. No-chemicals are allowed for cleaning

MANUFACTURER

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