❧ Manuals+

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PIMA FORCE Series Advanced Intruder Alarm Systems Installation Guide
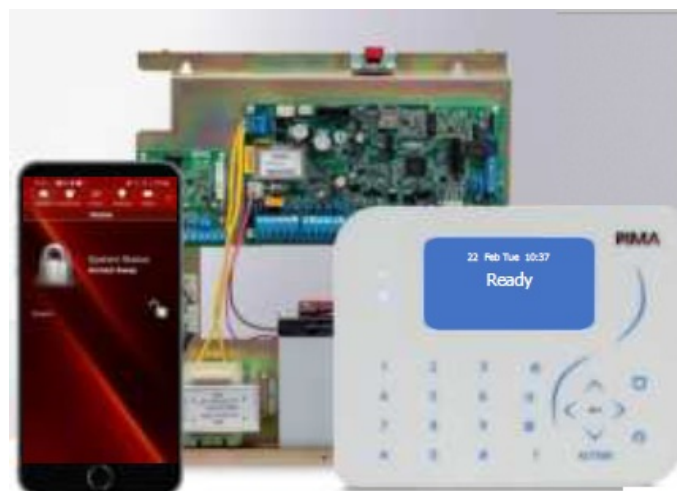
July 20,
2025

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FORCE Series Advanced Intruder Alarm Systems

**FORCE Series
Advanced Intruder Alarm Systems**

Installation Guide 💂
System Version: 1.8.73

PIMA

FORCE Series Installation Guide

Safety Instructions. Read Carefully

This product complies with international safety standards. These standards require us to inform you with the following instructions:

• There is a risk of electric shock in the alarm system and its peripherals. Do not expose this system to rain or moisture to reduce the risk of electric shock and/or fire. Pay attention: Telephone cords could be a good conductor of lightning energy.

• Warning: High voltage is present inside the control panel's enclosure. This equipment does not have mains on/off switch and is just protected by the mains circuit breaker. Use the direct plug-in AC power connector to disconnect the device. Refer servicing to qualified personnel only. • The alarm system's control panel should be operated with either 230VAC or 110VAC, 50/60Hz. Use only the power supply provided with this equipment. The use of unauthorized power supplies may cause damage.

• Do not spill liquid of any kind into the unit. If a liquid is accidentally spilled in the unit, immediately consult a qualified service technician.

• Replace batteries only with the same type. Do not mix old and new batteries. Disposal of used batteries must be done under local waste recovery and recycling regulations.

<u>Default Codes</u>
Master: 5555
Installer: 1234
Signs in this guide

⚠ Warning

📝 Note

↵Enter sub-menus, select/deselect, save selection

Menu with sub-menus

→ Options menu

⤺Return/Back, cancel (except in the Keypad Settings menu)

◉/ ○ Select/deselect to enable/disable

 #/* Scroll between zones, partitions, users, etc.

FORCE Series Installation Guide

1 Introduction

This guide will introduce you with the new hybrid, highly reliable FORCE
Series (hereinafter, FORCE) intruder alarm systems, that includes the FORCE,
the FORCE Lite , the FORCE 32/C and Force 16. With 7-line, LCD screen, clear menu-
driven display keypads, the FORCE is an intuitive, easy to install and use alarm system.

FORCE offers advanced communication and expanding technology, including wireless
receivers and peripherals, one and two-way.

The Technician and User subject menus make programming and navigating the menu
fast and easy. Help screens improves servicing.

A special Tests & Diagnostics menu allows you to view various information on the
system status, and test it and its peripherals.

The PIMAlink 3.0 cloud service and smartphone application allow the end-user to control
the FORCE system from anywhere.

This Installation guide refers to the FORCE alarm system. Additional guides are: • The Technician Programming Guide.

• The User Guide.

• The User Programming Guide

1.1 Upgrade server

PIMA has set up a special server that allows our partners to do the following actions, directly from the keypad:

▪ Upgrade the firmware of FORCE alarm systems to the latest version1

▪ Download a new interface language

▪ Update the system's logo.

A new menu – Upgrade/Update – was added in the User menu, under Remote Service; see below.

Menu Description

Firmware Select Latest version, or (None) if you only update the logo.

Language Select a language from the list (check availability with PIMA).

Note: The programmable strings like zone names remain in the original language. You should update them manually or default the system Logo No. Enter the logo number you receive from PIMA.

Menu Description

Over Network Use the network (Ethernet) link for the upgrade.

Over Cellular Use the Cellular link for the upgrade.

1.2 Main features
1.2.1 Common features

- Eight onboard zones
- Multi-channel, parallel communications
- Graphic, LCD, 7-line keypad display with various menus.
- Remote operations via PIMAlink 3.0 cloud and smartphone application
- Detailed test and diagnostics menu
- Remote firmware update via the new upgrade server
- Up to three CMSs (Central Monitoring Stations), with password protection for each.
   FORCE
- Zones: expandable to 144 (including 8-zone double zoning), including up to 64 wireless2.
- Users: up to 144, with a unique code for each, up to 64 of which with a remote control.
- Contacts: up to 32, for receiving alarm and other notifications.
- Partitions: up to 16, with separate keypads for each (up to 16 overall).
- Zone Expanders: bussed 8 zones with one relay, bussed 16 zones with two relays and local 8 zones expander (in the control panel housing).
- Communication paths: Ethernet, cellular 2G/3G/4G (voice/data), PSTN and Radio.
   FORCE Lite
- Zones: expandable to 32, and 24 wireless2 (a total of 64, including 8-zone double zoning).
- Users: up to 64, with a unique code for each, up to 24 of which with a remote control.
- Contacts: up to 16, for receiving alarm and other notifications.
- Up to eight true partitions, with separate keypads (up to eight) for each.
- Communication paths: Ethernet, cellular 2G/3G/4G (voice/data), and Radio.
- Siren output: 1; Tamper input: 1 FORCE 32
- Zones: expandable to 32 (including 8-zone double zoning), including 24 wireless2.
- Users: up to 32, with a unique code for each, up to 24 of which with a remote control.
- Contacts: up to 16, for receiving alarm and other notifications.
- Partitions/keypads: up to 8
- Communication paths: cellular (2G/3G/4G), PSTN, radio, and network (limited). The network connection only allows connecting with the FORCE Manager up/download

software, and to the new upgrade server.

- Siren output: 1; Tamper input: 1

FORCE Series Installation Guide

FORCE 32C

The FORCE 32C has the same features as the FORCE 32, except that it has full network capacity (including PIMA cloud) as in the FORCE alarm system.

FORCE 16

- Zones: expandable to 16, including 8 wireless2.
- Users: up to 8, with a unique code for each and a key fob.
- Contacts: up to 8, for receiving alarm and other notifications.
- Partitions/Keypads: up to 4 partitions and 8 keypads
- Siren output: 1; O.C. output: 1
- Communication paths: cellular 2G/3G/4G (voice/data), radio, and network (including PIMA cloud).

1.3 System comparison table

Feature	FORCE	FORCE Lite	FORCE 32/32C	FORCE 16
Hardwired zones	8-144	8-64	8-32	8-16
Wireless zones (max.)	64	24	24	8
Users	144	64	32	32
Contacts	32	16	16	16[3]
Partitions	16	8	4	4
Onboard network connection	✓	✓	✓[4]	✓
Communication paths	Network, PSTN, cellular, radio	Network, cellular, radio	PSTN, cellular, radio, network (limited[4])	Network, cellular, radio
Output current	2A	2A	2A	2A
Siren outputs	2	1	1	1
Relay output	1	-	1	-

1.4 Technical specifications

- Main Power input: 16.5 VAC or 16 VDC
- Backup battery: 12VDC, Lead-Acid type.
- Relay: 1A max.

- On/Off and Alarm outputs (minus, open drain): 300mA (max.)
- Output current
  - Max: +13.8VDC, 1.1A. FORCE Lite/32: +13.8VDC, 2A
  - Idle: 50mA
- EOL resistors (supplied): 16X 10kΩ (zones), 2X 2KΩ (sirens), 8X 5.1kΩ (zone doubling)
- Operating temperature: -10 to +50 °C
- Humidity (max.): 93% R.H., non-condensing

3 A cellular receiver is required to send notifications to the contacts

4 See the limited network connection features for each system above the table.

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Appendix A: Implementing Partitions

1.5 Ordering information

Product P/N

FORCE 8350012

FORCE Lite 8350055

FORCE 32 8350205

FORCE 32C 8350303

FORCE 16 8350401

1.5.1 Peripherals

Product Description P/N Hardwired

KLA500 Keypad arming station (wired) 8415020 KLR500 Rubber key, LCD screen keypad 8415001

KLT500 Touch key, LCD screen keypad White   Black

8415010 8415012

OEX508 8-relay outputs expander 8500028 VOX500 Voice module 8210007

ZEL508 Local 8-zone expander. The card is installed beside the control panel and is connected using a special 4-wire cable.

ZEP608 8-zone expander with 13.8V, 2A power supply, mounted in a metal case.

ZEP716 16-zone expander with 13.8V, 2A power supply, mounted in a metal case.

8330011 8290411 8290413

ZEX508 8-zone expander with one relay output 8500026 ZEX516 16-zone expander with two relay outputs 8500027 Radio and cellular

CLM412 Cellular add-on (4G) 8300049

TRV-100 TRU-100

Long-range radio transmitters

• TRV-100 Low: 8200011

• TRV-100 High: 8200010

• TRU-100 Low: 8300005

• TRU-100 Medium: 8300009

• TRU-100 High: 8300006

• VHF Antenna 42cm: 6110003

• VHF Antenna 51cm: 6110007

• UHF Antenna: 6110004

Wireless Peripherals (433 MHz), two-way

DCM743 Door contact 8841202 DCT743 Small Door Contact 8841200 DFL743 Flood detector (one-way) 8841206 DPC743 PIR motion curtain detector 8841214 DPP743 PIR motion detector with pet immunity 8841212 DPS743 PIR motion detector 8841210 DKD743 PIR Dual-Tech + AM + Anti Cloak 8841230 DSC743 Smoke heat detector 8842202 DSK743 Shock Detector + Door Contact (one-way) 8841207 GBR743 Glass break detector (one-way) 8841204 KAS743 Arming Station 8843204 RMC743 Key fob 8843208 RPB743 Panic button (one-way) 8843206

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Product Description P/N SRO743 Outdoor Siren 8841216

WRF743 64-zone receiver (PIMA peripherals) FORCE Lite: 24 zones

8500230

WRP743 Repeater Please call PIMA

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Appendix A: Implementing Partitions

2 The Control Panel

2.1 Location guidelines

To make installation and servicing easy and efficient, the FORCE's control panel, transformer and backup battery are mounted on a special rack. The rack is covered by a metal lid. Use the following list as a guide to find a suitable location to install the FORCE security system:

▪ Install the control panel in a protected location, where people cannot trip over any line or power cord.

▪ Select a location free from vibration and shock.

▪ Mount this product on a flat stable surface, near telephone and network sockets, and a power outlet.

▪ Do not choose a location that exposes the control panel to direct sunlight, excessive heat, moisture, vapors, chemicals, or dust.

▪ Protect cords from damage or abrasion.

▪ Disconnect all sources of power supply prior to installation. Pay attention: do not install low voltage wires near any AC power wires. They should be installed separately. ▪ Do not install this product near water, e.g. bathtub, sink, wet basement.

2.2 Installation

⚠   Make sure AC power and battery are not connected prior to installation.

The control panel is installed on a designated metal rack. The rack is supplied with a lid. The rack is also designed to hold a transformer, a backup battery, a local zone expander (optional), and a radio transmitter.

To install the control panel, follow the next steps.

1. Use the next diagram to position the two upper and one middle hanging holes.

2. Pass the wires of the zones and expanders from behind the rack, through the opening.

3. According to the designated surface, use appropriate wall plugs (if necessary) and screws and mount the rack.

4. Connect the wiring.

5. Place the metal cover: tilt it upwards, insert the 2 teeth on the rack to the notches on the cover, place the cover on the rack and fasten the supplied screw at the bottom.

⚠️ **The enclosure's screw is used for grounding. Use only the supplied screw.**

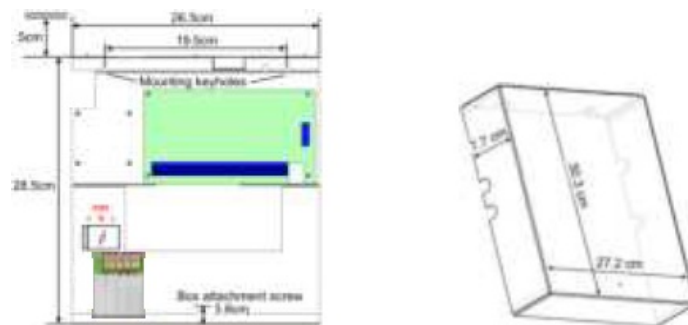PIMA Electronic Systems 9

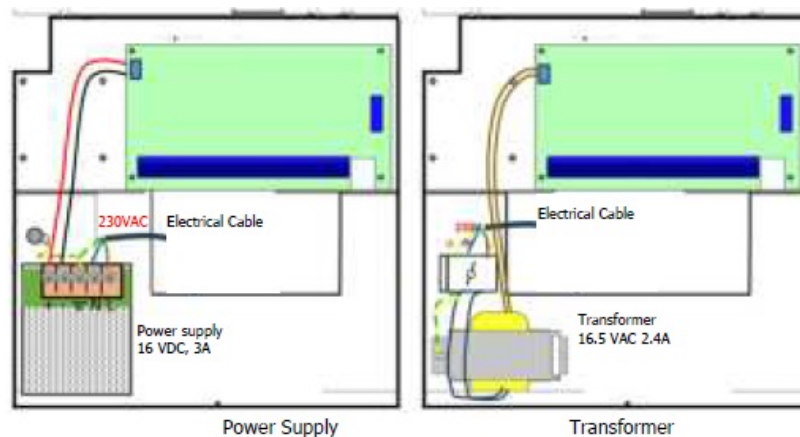FORCE Series Installation Guide

Figure 1. The control panel's rack Figure 2.

The rack's lid The Force offers two power supply options: a transformer and a power supply.

In both cases, the panel supplies up to 2A for peripherals such as detectors, expanders etc. Note: all panels are delivered with a power supply only. The transformer option is related to systems that have been delivered in the past.

Appendix A: Implementing Partitions

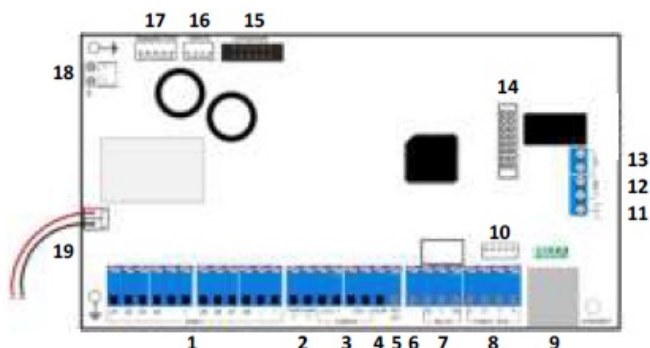## 2.3 The control panel's circuit board

Figure 3. The control panel's circuit board diagram

Following is a table of the circuit board's terminals.

No. Label Description

1 ZONES Z1-Z8 zones, (+)/(-) detectors' voltage

2 TMPR1-2 Tamper switches 1-2; FORCE Lite/32: TMPR 2 input unavailable.

3 SIRENS Ext./Int. External/internal sirens, (+)/(-); FORCE Lite/32: the Int. output is
 unavailable.

4 ALRM Output (by default, switched to minus at alarm)

5 ON/OFF Output: (by default, switched to minus on arming)

6 (-) GND (-)

7 RELAY Output: NC (Normally Close), C (Common), NO (Normally Open);
 FORCE Lite: unavailable

8 FORCE BUS The -/+/In/Out terminals are numbered 1-4. All expanders and keypads

have the same wire numbering.

9 ETHERNET Ethernet socket. FORCE 32: available only for connecting to the FORCE Manager software.

10 – Technician keypad's and local zone expander ZEL508 connector

11 Earth ground; use only with non-PIMA non-metal cases!

12 LINE Telephone line; FORCE Lite: unavailable

13 SET Telephone set, fax, answering machine; FORCE Lite: unavailable

14 – Cellular add-on socket

15 EXPANSION For future use

16 SERIAL RS-232 socket

17 TRANSMITTER Radio transmitter socket

18 AC/DC in Voltage input, 14-16 VAC when using a transformer or 16 VDC when using a power supply.

19 BATT Backup battery, Red (+)/Black (-) cables

FORCE Series Installation Guide

The Int. Siren, Relay, and Line/Set terminals are not assembled in the FORCE Lite PCB, and the transformer's voltage is 14.5VAC.

2.3.1 The bus

The bus is a serial communication channel, used for exchanging data between the control panel and the peripherals. The protocol in use by the bus is ForceCom (PIMA

proprietary). Use four 0.5mm (24 Gauge (AWG)) wires for the bus. The maximum bus length is 500m, including all peripherals and keypads.

Connect the wires using the numbers 1-4, where terminal #1 on the control panel connects to the same terminal on the peripheral, and so on.

2.3.2 Zone wiring

Figure 4. No EOL5 Figure 5. One EOL Figure 6. Two EOLs

2.3.3 Zone doubling

Zone Doubling allows you to double the eight onboard zones to 16. All doubled zones must be wired according to the diagram on the right hand side.

In the diagram on the right (all values are for example only), the zone that has a 10kΩ resistor will be the first zone (lower number zone), and Z1 the zone that has 5.1kΩ resistor will be the second zone (higher number zone).

For example, Zone #1 input will serve Zone #1 (10kΩ) and Zone #9 (5.1kΩ), Zone #2 input will serve Zone #2 and zone #10, and so on. 2.4 Tamper switches

TMPR 1 & 2 are inputs for tamper switches in boxes, detectors, sirens, etc. By default, the control panel's box tamper is connected to TMPR 1 input.
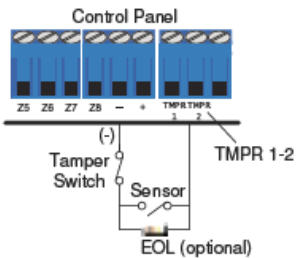
5 End Of Line resistor

Zone 9

5.1KΩ, 5%

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Appendix A: Implementing Partitions

To connect tampers, follow the next steps:

1. Connect one wire to the TMPR 1 or 2 terminals. FORCE Lite/32: TMPR2 terminal is not available.

2. Connect the other wire to a (-) input.

3. Set the tampers parameters.

2.5 Wired sirens

Connect any DC siren (only) to the FORCE. To connect sirens, do the steps that follow:

1. Connect an internal siren to the SIRENS Int.
(internal) +/- terminals. FORCE Lite/32: the Int.
terminal is unavailable.

2. Connect an external siren to the SIRENS Ext.
(external) +/- terminals.

3. For EOL loop supervision, connect a 2kΩ resistor inside the siren's enclosure.
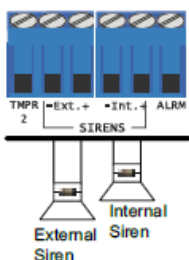

Figure 7. Sirens connection diagram

2.6 Alarm and On/Off outputs

The Alarm and On/Off are open drain outputs.

Connect devices (up to 10A) between the output and the (+).

• The Alarm output supplies ground when the alarm is triggered (by default).

• The On/Off output supplies ground on arming the alarm system (by default).

Device Device

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2.7 Relay

Connect devices such as electric doors and lights to the relay terminals. The terminals are: NC-Normally Close, C-Common, and NO-Normally Open. Max. carrying current: 1A

2.8 Wired keypads

Keypads and other peripherals connect to the bus in the FORCE BUS terminals (see section 2.3.1). Up to 16 addressable KLT/KLR/KLA keypads with ID=1-16 (or un-addressable keypads with ID=0) can be used. FORCE Lite/32: up to 8 keypads.

2.8.1 Keypad ID number

To set the keypad ID number:

1. Press and hold the # + ? keys to display the Keypad ID screen.

2. Enter a number between 1 and 16

3. Press to save and exit.

The keypad's version is also displayed in this screen. 2.9 Phone line and set6

Keypad ID: (0 … 16)

Version: – xx.xx.xxPress to Exit

1. Connect the phone line cords to the LINE terminals. If the line is shared with an ADSL modem, use an appropriate filter.

2. Connect phone set, fax machine or answering machine to the SET terminals – this will enable the control panel to answer any incoming call.

Figure 8. Line and Set connections

2.10 Wi-Fi Adapter

The WFM500 is an Ethernet-to-Wi-Fi adapter that connects FORCE Series intruder alarm systems to a Wi-Fi network, the PIMA cloud, and other devices on the network. Please refer to the manual for installation and configuration.

6FORCE Lite: not available

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Appendix A: Implementing Partitions

Appendix A. Implementing Partitions

FORCE allows defining up to 16 true partitions, whereby each can independently be in a different arming mode, i.e., Away, Home, or Disarmed.

A partition is consisting of several zones, and is normally a defined area, such as a building floor, a store or a compartment. Every partition can have its own subscriber ID no., user codes, keypads, peripherals, etc.

Partitions' event reporting is subject to the following:

Event Reporting ID no.

Zone alarms The ID no. of any partition that the zone is allocated to*. If the zone is

allocated to more than one partition, a separate report will be sent on each partition.

If only partition's #1 ID no. is defined, any event will carry that no.

Arming/Disarming The same as in zone alarm

Keypad alarm The ID no. of any partition that the keypad is allocated to*. Non-zone Fault Partition #1

* The event will be reported separately for each partition.

Zone, keypads, users, and contacts can be allocated to more than one partition. In such a case, the following will apply:

1. Arming a zone is subject to all the partitions that the zone is allocated to: it will only be armed when all its partitions are armed.
2. An armed zone becomes disarmed, as soon as one of the partitions it is allocated to is disarmed.
3. Arming and disarming via a keypad are subject to both the keypad and the user's partitioning. For example, if a user that is allocated to partitions 1, 3 & 5, enters its code in a keypad that is allocated to partitions 4, 5 & 7, only partition 5 will either be armed or disarmed.
4. A keypad can only display the status of and control the partitions it's allocated to. The Armed LED stays on only when ALL the keypad's partitions are armed, and flashes when only some partitions are armed.

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Appendix B. Remote Up/Download

1. User authorization

The parameter Remote Up/Download under CMS & Communication/General Settings sets if connecting remotely to the FORCE for upload/download is enabled and

if it requires a user approval. See the FORCE's User guide on how the user approves the connection. Uploading and downloading is done using the Force Manager PC software (see a separate guide). Connection between the PC and FORCE is made possible only with the Up/download code or the technician code.

Using the CMS lock code to connect to FORCE requires user permit.

2. Upload/download code

The 6-digit upload/download code allows connecting and programming
the FORCE system (except CMS locked menus) remotely. You should set the code in the Force Manager software, the first time you connect to the FORCE (it cannot be done locally).

3. Connection options

Below are the options on the User menu System Options/Communication/Remote Service 7:

Option Description

Allow Access Now

Over

Network/ Cellular Data

The user must allow you to remotely connect to the alarm system:

• When you connect using the master Technician code, and not the Up/Download code.

• The first time you want to connect via PIMA cloud, or if the cloud service is at fault.

To connect over network or cellular set the IP address in the Communication/ Monitoring Stations/Network, Cellular Settings menus, in Callback No./Callback Address

parameters.

The user can manually enter the address in the User menu.

7 The user can press and hole key '6' to enter this menu (ver. 1.2 and higher)

Appendix C: Programmable Output Types

Appendix C. Programmable Output Types

Output Type Activation Deactivation8 Timer Partitioning Default

1-9998 (sec) 9999 (Follower) 0 (Latch)9

Alarms: Burglary, Panic, Silent panic, Fire, Medical, Duress, Anti mask, Custom zone type 1-5 Faults: Any fault, AC, Low battery, Phone line/Network, Cellular modem, Communication, Tamper

Alarm triggering

Fault occurrence

Activation time elapses, or disarming.

✓   ✓ ✓ 240 sec ✓ ✓ ✓ 9999

External sirenSiren triggered ✓   ✓ ✓240 sec Internal siren ✓   ✓ ✓ Zone bypass10 Bypassing a zone ✓ ✓ ✓ ✓ 9999 Smoke Reset Fire zone, or keypad alarm. Activation time elapses, or

key is pressed and held. ✓   ✓ 60 sec

Chime Activation Chime triggered Activation time elapses ✓   ✓ 3 sec

Output-Key fob: output activation by a keyfob

• PIMA key fob: press the

• Visonic key fob: press the asterisk (*) key

Activation time elapses, or key pressed again. ✓   ✓ 5 sec

Energy saving All zones are closed Activation time elapses ✓   ✓ 15 min

Code keystrokes Code Keystrokes counter exceeds limit

Activation time elapses ✓   ✓ ✓11 24 key strokes

Operation code 1-8 Entering a code Activation time elapses ✓   ✓12 ✓ 5 sec

8 For non-follower timers

9 Latched, until system/partition disarming.

10 See more below the table.

11 Subject to the keypad's partitioning

12 Toggle mode

Appendix D. Technician and CMS Codes

There are few technician codes in the FORCE security system: Master, and two CMS lock codes, which allows limiting the access to the CMS menus by a password.

1. Master technician code

By default, and as long as no CMS lock code (see next) has been set, the Master technician code enables to access all the technician menus, including all the CMSs'. To enter the technician menu for the first time, follow the next steps:

1. On versions 1.3 and higher, enter the default Master code (5555), set new 4-6 digit Master User and Technician codes, and press .

2. On previous versions, do the following steps:

a) Enter the default Master code (5555) and set a new code.

b) Enter the new code to enter the User menu, scroll to Other Options and press .

c) Scroll to Technician Permit and press .

d) Immediately enter the default Master technician code 1234.

e) Enter a new 4-6 digit Master technician code and press .

f) Press the button repeatedly to exit the menu.

2. CMS lock code

The CMS lock code ensures the CMS definitions from unauthorized access. Setting such a code prevents the Master technician code from accessing the locked CMS menus.

The CMS lock code is to be used, only when a technician needs to set the CMS definitions and doesn't have the Master technician code in hand.

If access to the CMS menus has been limited by the Master Technician, the technician code must be obtained and the Other CMS parameter under General Settings should be disabled.

If you need to set a second CMS and you don't have the Master technician code available, follow the next steps:

1. The user must grant you access via the Technician Permit menu (User menu/Other Options).

2. Immediately enter the default Master technician code, 1234 – the next undefined CMS lock code screen is displayed13.

3. Enter a new 4-6 digit lock code.

4. Press the button.

From now on, these CMS definitions are only accessed using the new lock code. Whenever there will be a need to change or view these CMS's definitions, the user will have to approve it,

13 Providing there is an available CMS menu

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Appendix E: Text and Characters

after pressing the Technician Permit menu. A technician that has the Master technician code, will not be able to view or change these definitions.

Changing default Master Technician code

User must approve by

pressing Technician Permit 1234 Setting CMS Lock code

New Master

Technician Code

All the technician menus are accessible, as long as no CMS Lock code is set

User must approve by pressing Technician Permit

New CMS Lock Code

Only allows accessing the CMS's menus. Requires user approval every time.

Appendix E. Text and Characters

Text is entered like in a telephone set: each key is allocated with several characters; each keystroke presents a different character. For example, press 8 twice to type U. The keystrokes and character table are described in the table and image that follow:

Key Set 1 Set 2 Set 3

1.,?!()/*:-+#@' 1.,?!()/*:-+#@' 1.:

ABC2 abc2 2

DEF3 def3 3

GHI4 ghi4 4

JKL5 jkl5 5

MNO6 mno6 6

PQRS7 pqrs7 7

TUV8 tuv8 8

WXYZ9 wxyz9 9

Space, 0

Delete, return to default

Uppercase/lowercase/digits

Appendix F. Zone and System Status 1. Zone status (press and hold key '5')

Letter Indication

A Zone alarm

B Zone bypass

C Chime zone

F Fault (tamper/disconnection/short)

L Low battery (wireless peripheral)

M Anti-mask alarm (wireless peripheral)

O Armed partition

T Zone test

V Supervision loss (wireless peripheral)

FORCE Series Installation Guide

2. System status (up on the main screen)

Letter Indication

G Cellular data communication

N Network in use (including PIMA cloud)

P Phone line in use

R Relay (device) activation

S Siren activation

Appendix G. CMS Event Reporting Below is a table with a list of the events that are reported to the CMS and private users. Source Reporting

Zone: Burglary, Shock sensor, Panic, Silent Panic, Fire, Duress, Medical, Tamper, Anti-mask, Custom + keypad alarms

Fault: AC Power14, Low Battery (including in peripherals), Phone Line, Cellular add-on/Cellular Modem+ SIM, Fuse current, CMS communication

Invalid code (after programmed keystrokes)/Arming/ Disarming/ Technician On-site/Remote Test/Periodic Test/Zone Bypass (only zones that are set to report on alarm)/Pre-alarm/Power-up

Alarm/Restore/Fault. Tamper: including External and Internal Siren and EOL supervised loops.

Fault/Restore

Matching event

Zone/Output Toggle Open/close activation/deactivation

1. Custom zones reporting codes

A custom zone allows flexibility when you want to report on events that are not the zone type's default events. These events can be water or gas leak, for example (see the Glossary, next).

Below are common events with their ContactID and SIA codes.

Event ContactID

Event SIA

151 Gas leak

152 Freeze

153 Low heat

154 Water leak

157 Low gas pressure 158 High temperature 159 Low temperature 201 Low water pressure

204 Low water level

Gas leak

Restore

High temperature Restore

Water leak

Restore

Freeze

Restore

GA GH KA

KH WA WH ZA

ZH

14 When the report is delayed, if the fault doesn't exist by the time the delay elapses, no report is sent.

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Appendix H: Glossary

Appendix H. Glossary

Cross Zones

A false alarm reduction feature: two cross zones will trigger the alarm (separately), only if both are activated during the Cross Zones time. If only one cross zone is activated no alarm will occur. If the second (or any other) cross zone is activated after the Cross Zones time expired, no alarm will occur.

Normally, cross zoning is used across nearby zones, especially zones on the exit/entry route. Custom Zone Type

A zone type that can be fully or partly customized. Use these zones for special, non-standard zones such as flood or freeze ones.

Custom zones can report as any standard zone (Burglary, Panic, Medical, Etc.), but have different sensitivity and characteristics, or have custom reporting codes (set in Custom Zones Report menu).

Custom zone types with Custom Type reporting type can be utilized to trigger outputs for specific purposes, such as activating a pump.

Double Knock

A false alarm reduction feature: this zone will trigger the alarm, only if it activates twice during the Double Knock time. A Double Knock zone will also trigger the alarm if it's opened for the duration of the Double Knock time.

Energy Saving (Programmable Output Type)

The Energy Saving timer starts running when all the zones are closed and it runs as long as no movement is detected. It can be utilized (using a relay) to turn off lights and air-conditions, if the alarm system was armed but these appliances (or any other) were left on.

Roller Blinds

A special zone sensitivity, for use with roller blinds (and a special detector). This zone will trigger the alarm when it five times within two minutes, or activates once for five seconds. The zone restores after not being activated for five seconds.

Limited Warranty

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Please read this manual in its entirety before attempting to program or operate your system. Should you misunderstand any part of this guide, please contact the supplier or installer of this system.

Manufactured by:

Pima Electronic Systems Ltd.

www.pima-alarms.com

5 HaTzoreff St., Holon 5885633, Israel

Tel: 03-6506411

Technical Support: support@pima-alarms.com

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https://www.pima-alarms.com/wp-content/uploads/force.htm

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Documents / Resources

	[PIMA FORCE Series Advanced Intruder Alarm Systems](#) [[pdf](#)] Installation Guide 22 mag 2025, 1.8.73, FORCE Series Advanced Intruder Alarm Systems, FORCE Series, Advanced Intruder Alarm Systems, Intruder Alarm Systems, Alarm Systems

References

- [User Manual](#)

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🏷 1.8.73, 22 mag 2025, Advanced Intruder Alarm Systems, Alarm Systems, FORCE Series, FORCE Series Advanced Intruder Alarm Systems, Intruder Alarm Systems, PIMA

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