Partner
SECURITY PRODUCTS™

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Partner
PRODUCTS

P-48

4-32 Zone Hybrid
Security System

residential & light
commercial applications

P-48

Up to 32 Zones Selected From…

- ✎ **up to 8 hardwire zones selected from:**
  - 4 hardwire zones on main control panel
  - 8 keypad input zones (1 per keypad)

- ✎ **32 wireless zones using P5132 wireless receiver**

Up to 12 Keypads

- ✎ **up to 8 hardwired and 4 wireless keypads**

- ✎ **5 hardwired keypad models available…**
  - P832-08Z eight zone LED keypad with zone input
  - P832-16Z sixteen zone LED keypad with zone input
  - P832-32Z thirty two zone LED keypad with zone input
  - P832-LCDZ alphanumeric keypad with zone input

- ✎ **PWLS910 - wireless hand-held keypad**

- ✎ **added wireless control is provided by…**
  - PWLS908 - wireless panic pendant
  - PWLS909 - wireless key

P-48 Main Control Panel

- ✎ **up to 32 fully programmable zones**
  - use any combination of:
    - …4 hardwire zones on main control panel
    - …8 keypad input zones (1 per keypad)
    - …32 wireless zones using P5132 wireless receiver
  - all zones programmable as burglary or fire**
  - zone wiring options include… Normally Closed, Single End of Line (EOL) resistor, and Double EOL resistor **

    ** keypad zones cannot be programmed as fire zones if panel is programmed for Double EOL resistor supervision

  - 27 programmable zone types, 8 programmable zone attributes

- ✎ **128 event buffer**
  - all events automatically stored with time and date stamp to buffer
  - events can be printed on-site, viewed through the LCD Keypad or Comm-Link DLS software

- ✎ **alarm output -** bell output - 700mA @ 12Vdc, PTC protected

- ✎ **2 programmable voltage outputs**
  - PGM1…

    North America... low current, 50mA @ 12Vdc

    International… high current, 300mA @ 12Vdc

2 Programmable Voltage Outputs

- ? **PGM1 and PGM2 with 24 programmable options**

Advanced Communications

- ? **supports all major formats including SIA and Contact ID**
- ? **LINKS 1000™ cellular communication**
- ? **LINKS 2150™ and LINKS 2450™ long range radio communication**
- ? **DVACS using P5400DV-SG in place of P5400 printer module**
- ? **event-initiated personal paging**
- ? **3 phone numbers (3rd backs up primary number)**
- ? **2 account numbers**

Efficient Installation

- ? **4 wire communications bus (KEYBUS)**
  - – connect keypads and modules up to 1,000' (305m) from control panel

- – PGM2…

  North America... high current, 300mA @ 12Vdc (can also be used for 2 wire smoke)
  International... low current, 50mA @ 12Vdc

- – 24 programmable options

- ? **local PCLINK™ and remote upload/download capability**
  - – PCLINK allows direct connection of PC to alarm panel
  - – program system using Comm-Link DLS software
  - – view status and trouble conditions
  - – view 128 event buffer

- ? **1A regulated power supply**
  - – auxiliary power… 12Vdc, 550mA
  - – positive temperature coefficient (PTC) AUX & Bell output protection
  - – electronically protected from KEYBUS faults
  - – supervision for AC power loss and low battery
  - – internal clock locked to AC power frequency

- ? **battery required : 12V, 4Ah, rechargeable sealed lead-acid**

- ? **transformer required : 16.5Vac, 40VA**

System Operation

- ? **39 access codes**
  - – 32 user codes, 1 master code, 2 duress codes, 2 supervisor codes, 1 installer code, and 1 maintenance code
  - – individual open/close reporting by user

- ? **'no code required for Bypassing' option**
  - – allows users to bypass zones without entering an access code

- ? **'quick arm' and 'quick exit'**

LED & LCD Keypads

Plain Language P832-LCDZ Keypad

- allows users to arm and exit easily

? **'stay/away' zones and 'stay' arming**

- security of perimeter arming while premise is occupied

? **automatic arming**

- program system to auto-arm at a specific time every day

? **'activity delinquency' code**

- signals monitoring station if no activity is sensed in premise for a programmable period of time

? **door chime**

- programmable by zone

- monitor a door by having keypad beep when the door is opened or closed

False Alarm Prevention Features

? **audible exit delay**

? **audible exit fault**

? **arm/disarm bell squawk**

? **urgency on entry delay**

? **quick exit**

? **programmable swinger shut down by zone**

? **programmable transmission delay by zone**

? **AC failure, TLM trouble, and Low Battery transmission delays**

? **recent close code transmission**

? **cross zone police code transmission**

? **opening after alarm code transmission**

Full Supervision

Trouble conditions are displayed on all keypads and can also be communicated to central station for:

? **battery trouble**

The P-48 security system is fully programmable from the attractive, easy to use dual-language P832-LCDZ keypad:

? **connect up to 8 keypads, combination LED and/or LCD**

? **zone input**

- connect detector to keypad to replace up to 4 hardwired zones on main panel and/or increase total hardwired zones to 8

? **dual-language** (languages vary according to country)

- simple key entry to toggle between languages while viewing keypad

? **large 32 character display**

- zone identification

- system instructions

- system status

- 128 event buffer

- trouble conditions

? **plain language operating instructions**

- menu for user functions

- what key to press for specific functions

- steps for programming functions

? **5 programmable function keys with 15 options such as…** Home Arm, Away Arm, Quick Exit etc.

? **4 keypad-activated alarms…** Fire, Auxiliary, Panic, and Duress

? **3 LED indicators…** Ready, Armed and Trouble

- allow system status to be viewed at a glance

? **backlit display**

- display and keys backlit for easy viewing in low light conditions

- adjustable brightness and contrast

- Backlighting Boost provides extra high key lighting when any key is pressed

? **piezo buzzer**

- provides audible feedback for correct key entries, pre-alert, and system trouble status

- select from 21 different buzzer tones

- ✍ **AC failure**
- ✍ **zone low battery**
- ✍ **auxiliary power trouble**
- ✍ **zone tamper**
- ✍ **zone fault**
- ✍ **system tamper**
- ✍ **fire trouble**
- ✍ **siren circuit trouble**
- ✍ **arming delinquency**
- ✍ **general system trouble**
- ✍ **failure to communicate**
- ✍ **event buffer 75% full**
- ✍ **loss of system time**
- ✍ **telephone line trouble -** (via LINKS™ cellular communicator)
- ✍ **general system supervisory trouble…** reports when system fails to communicate with any module on the KEYBUS

P5400 - RS232
Serial Printer Interface Module

- ✍ **allows serial printer connection for report of events logged to the P-48 event buffer**
- ✍ **supports any 300, 1200, 2400 or 4800 BPS serial printer**
- ✍ **multiple languages available**
- ✍ **module connects to 4 wire KEYBUS up to 1,000' (305m) from control panel**
- ✍ **c/w DB-25 modular connector for easy connection**
- ✍ **current draw :** 65mA
- ✍ **maximum one module per system…** P5400DV-SG DVACS module may be substituted for full DVACS communications capability (see separate DVACS spec sheet)

- ✍ **connect to 4 wire KEYBUS up to 1000' (305m) from control panel**
- ✍ **specifications**
  - – current draw : 90mA with backlighting boost
  - – dimensions : 5.75" x 4.5" x 1" deep (144 x 114 x 25mm)

LED Keypads

P832-08Z   P832-16Z   P832-32Z

Three LED keypads are available…with zone input
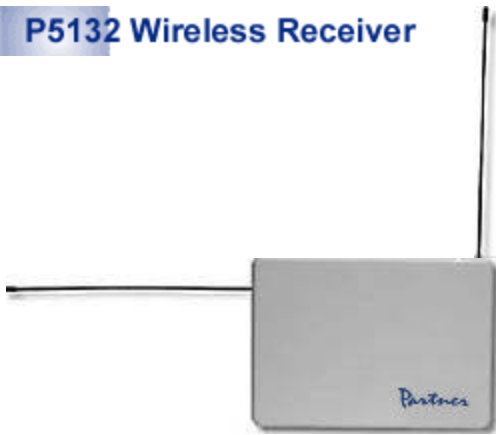
P832-08Z… 8 zone LED keypad
P832-16Z… 16 zone LED keypad
P832-32Z… 32 zone LED keypad

- ✍ **zone input**
  - – connect detector to keypad to replace up to 4 hardwired zones on main panel and/or increase total hardwired zones to 8
- ✍ **5 programmable function keys with 15 options such as…** Home Arm, Away Arm, Quick Exit etc.
- ✍ **connect to 4 wire KEYBUS up to 1,000' (305m) from control panel**
- ✍ **7 LED indicators…** Ready, Armed, Trouble, Memory, Bypass, Fire, Program
- ✍ **4 keypad-activated alarms…** Panic, Auxiliary, Fire, and Duress
- ✍ **backlit display…** with Backlighting Boost to provide extra high key lighting when any key is pressed
- ✍ **piezo buzzer…** provides audible feedback for correct key entries, pre-alert, and system trouble status
- ✍ **specifications current draw…** 90mA with backlighting boost
- ✍ **dimensions…** 5.75"W x 4.5"H x 1"D (144 x

.   114 x 25mm)

Wireless Security

P5132 Wireless Receiver

- ✎ **connect up to 32 DSC wireless detectors**

- ✎ **true 'Spread Spectrum' technology, 900MHz, fully supervised for communication integrity**

- ✎ **12 minute supervisory time**

- ✎ **connect to 4 wire KEYBUS up to 1,000' (305m) from control panel**

- ✎ **current draw :** 125mA

Wireless Control Devices

PWLS908 Wireless Panic Pendant

– communicates a non-medical alarm to central station

– 32 pendants maximum… each occupying 1 zone

Wireless Detectors

PWLS904 Passive Infrared Motion Detector

– 4 interchangeable lenses : wall to wall, corridor, curtain, and pet alley

– coverage up to : 50'L x 60'W (15.2 x 18.3m)

– fully supervised

– 4 AAA batteries (supplied)

PWLS906 Photoelectric Smoke Alarm

– 90° smoke detection pattern

– manual test & automatic self test

– loud 85 dB alarm horn

– fully supervised

– 6 AA batteries (supplied)

PWLS907 Slim-Line Transmitter

– may be used as a magnetic door or window contact or terminal connection for an external contact

– fully supervised

– 3 AAA batteries (supplied)

PWLS912 Glassbreak Detector

– detects breakage of all common types of framed glass including plate, wired, tempered, and laminated

– fully supervised

– 3 AA batteries (supplied)

PWLS914 Dual Element Pet

- sealed non-replaceable battery

PWLS909 Wireless Key

- remote arm/disarm control

- up to 16 keys per system

- 3 photo/electronic 1.5V batteries included

PWLS910 Wireless Hand-Held Keypad

- personal remote keypad

- up to 4 wireless keypads per system (in addition to hardwired keypads)

- 3 'AAA' batteries included

Immune PIR

- multi-level PIR signal processing

- two dual-element low noise sensors

- 40'L x 50'W (12.2 x 15.2m) coverage

- fully supervised

- 4 AA batteries (supplied)

PWLS915 Door/Window Contact

- a magnetic door or window contact

- complete with surface-mount magnet

- fully supervised

- 1 lithium battery (supplied)

PWLS917 Recessed Door/Window Contact

- flush mount transmitter for concealed door and window contact applications

- complete with flush-mount magnet

- fully supervised

- 1 lithium battery (supplied)

Partner™
PRODUCTS

P-48

4-32 Zone Hybrid Security System

Engineer's Specifications

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The contractor shall provide a complete electrically supervised, battery backed-up, fire and burglary alarm system.

EEPROM Memory
The alarm panel shall be equipped with EEPROM memory to retain all program information even if all AC and battery power is lost, and shall have integral static and lightening protection circuitry.

Communications Bus
System shall be complete with a 4 wire unshielded (QUAD) communications bus (KEYBUS) that allows system modules and keypads to be added anywhere on the bus up to 1,000 feet (305m) per leg from the main control panel.

Alarm Communications
The alarm panel shall be capable of digital communications via regular telephone line, LINKS cellular, LINKS long range radio, and DVACS to two separate monitoring stations or locations with 2 account numbers and 3 telephone numbers. LINKS cellular communication shall be capable of backup or sole communications to monitoring stations and for upload/download operations. The system communicator shall be capable of communicating in all major formats including SIA and Contact ID. Events transmitted shall be programmable to include: fire alarms, burglary alarms, trouble alarms, supervisory conditions, alarm restoral codes, opening (disarming) and closing (arming) codes, partial closing codes, and opening after alarm codes. The system shall be capable of paging personnel on the occurrence of any of the above events selected by the owner. The system shall be capable of transmitting a test code to the monitoring station(s) on a programmable daily, weekly or monthly frequency at a regular time of day.

Alarm Zone Types
The system shall be complete with a multi-zone alarm system with the capacity of up to 32 burglar or Class B fire zones of which up to 32 may be wireless zones. All zones shall be supervised and be capable of operating listed heat detectors, smoke detectors, alarm contacts, motion detectors, glassbreak detectors, vibration detectors, and other listed fire and burglary alarm detection devices.

The system shall have stay/away and stay arming capability to allow the user to remain on the premises while the system is armed. A quick-arm feature shall allow users without access codes to arm the system and exit. A door chime feature shall cause the keypad to beep when a selected door is opened or closed.

Wireless Security & Control
Wireless security shall be 900MHz true 'Spread Spectrum' technology. All detectors shall be fully supervised for communication integrity every 12 minutes.

Wireless control devices shall include up to 4 wireless keypads (in addition to hardwired keypads), and up to 16 wireless keys for remote arm/disarm. In addition, the system shall accommodate up to 32 wireless panic pendants each occupying one wireless zone in lieu of a wireless detector.

Auxiliary Power
The system shall be capable of providing 550mA of 12VDC auxiliary power for alarm devices.

Programmable Outputs
The system shall have 1 low current voltage output and 1 high current voltage output. All outputs shall be programmable to activate for 1 of 23 options.

Audible Alarm Output
There shall be a 700mA, PTC protected, supervised bell/siren circuit that will drive a bell/siren until reset or silenced. Siren output shall be programmable as steady or pulsed for each zone.

False Alarm Prevention

To prevent false alarms and unnecessary transmissions to monitoring stations, the alarm panel shall have SIA false alarm prevention features, programmable swinger shutdown by zone, audible exit delay, audible exit fault, opening after alarm reporting, arm/disarm bell squawk, urgency on entry delay, "quick exit", programmable transmission delay by zone, and transmission delay on AC failure, TLM trouble, low battery, recent close code, and cross zone police code.

Hardwired Keypads

The system shall support any combination of up to 8 dual-language and LED type keypads with backlit displays. Keypads shall be surface-mounted and capable of fully programming and operating the system. Each keypad shall be assignable to operate the entire system. Dual-language keypads shall be complete with 32 character liquid crystal display (LCD) to provide plain language programming instructions, operating instructions, and display of all alarms and supervisory conditions. They shall be capable of toggling between languages by pressing a keypad key combination. LED keypads shall have up to 32 zone indicators. All keypads shall have keypad-activated emergency alarms for panic, emergency, fire, and duress; 5 programmable function keys or programmable keypad functions; LED indicators for Ready, Armed, and Trouble or System; and shall be equipped with a piezo buzzer to provide audible feedback for correct key entries, pre-alert, and trouble.

Each keypad shall have one zone input to allow a zone detector to be wired directly to the keypad.

Access Codes

The system shall allow 39 access codes including 32 user codes, 1 master code, 2 duress codes, 2 supervisor codes, 1 installer code, and 1 maintenance code.

Upload/Download

The system shall be uploadable/downloadable to allow programming and operation from a directly connected local computer, or from a remote computer over a telephone line or LINKS cellular communications equipment. Remote access shall be controlled by the owner to prevent unauthorized access.

Serial Printer

The system shall support a 300, 1200, 2400 or 4800 bps serial printer connected to the communications bus up to 1,000 feet (305m) from the control panel. The printer shall log all system events and transactions with time and date stamp. Information shall be stored in the system's 128 event buffer which can be examined from the LCD keypad or via Comm-Link DLS software.

Approvals

The system shall meet UL and ULC standards as required for the relevant type of application.