



The P-16-128 is a 16 zone panel which is expandable to 128 zones. Expansion can be accomplished over a 4-wire Combus using a variety of input/ output and functional modules. The base panel includes two addressable loops which can accommodate up to 112 addressable input devices and the system can also be expanded with a 64 zone wireless receiver which connects to the system via the 4-wire Combus. Addressable, hardwired and wireless expansion can be used in any combination that suits the application.

The Premier Series is software ready to implement all security, access control, automation and residential fire functions by simply adding conventional or addressable devices, access control modules, and automation interface components.

P-16-28 Panel features

- ⌘ **16 programmable zones**... zones can be NC with no EOLR, NO/NC with single EOLR or NC with double EOLR.
 - 30 programmable zone types & 8 zone options
- ⌘ **2 PGM outputs**... each with 2 application choices :
 - as standard PGM output – 59 programmable options
 - addressable loop – up to 112 addressable devices.
- ⌘ **1 supervised bell circuit**... 59 programmable options
- ⌘ **1 unswitched auxiliary power supply**

System Expansion

The P-16-128 is easily expanded by adding input/output and functional modules onto the 4-wire communications bus (Combus).

- ⌘ **Combus**... up to four runs of 1,000 feet, can be T-tapped and is supervised for low voltage and module communication.
- ⌘ **up to 16 LCD keypads**... 32 character display
 - keypads can be 'partition' or 'global' operation
 - complete system programming via keypads
 - Ready, Armed, and Trouble indicators
 - 5 programmable function keys
 - 27 function key options
 - piezo buzzer for audible feedback and trouble
 - 4 keypad-activated alarms – Panic, Emergency, Fire, Duress
- ⌘ **up to 128 hardwired zones**... using P4108A/ P4116 eight and sixteen zone expansion modules.
- ⌘ **up to 64 wireless zones**... using the P4164RS wireless receiver and DSC wireless sensors and control devices.
- ⌘ **up to 112 addressable zones**... using the main panel PGM outputs as addressable loops and DSC addressable sensors.

Hardwired, Wireless and Addressable

- ⚡ **1 switched auxiliary power supply** .
 - ⚡ **supervised digital alarm communicator with 4 formats :** .
 - 20bps, 1400/ 2300Hz handshake .
 - Contact ID .
 - SIA with auto-reporting codes .
 - ⚡ **3 telephone numbers...** 32 digits each .
 - ⚡ **3 event-initiated pager formats** .
 - ⚡ **supervised battery charger** .
 - ⚡ **PCLink connector...** for local upload / download .
 - ⚡ **8 system partitions...** 9 account codes .
 - ⚡ **1,000 user/ card codes...** 64 access levels .
 - ⚡ **user/ card codes assignable by partition** .
 - ⚡ **3,000 event buffer...** 2,800 viewable on keypad .
 - ⚡ **59 programmable output options for:** .
 - bell zone, PGM outputs, relay outputs, transistor outputs .
 - ⚡ **comprehensive scheduling :** .
 - 99 date schedules .
 - 50 arm/disarm schedules .
 - 16 automation schedules .
 - 4 two year holiday schedules .
 - 99 open/close suppression schedules .
 - 50 addressable smoke detector test schedules .
 - ⚡ **multiple communication capabilities :** .
 - built in digital dialer .
 - optional module for DVAC .
 - optional cellular communications .
 - optional long-range radio communication .
 - ⚡ **upload/download capability...** full featured with separate upload/download phone number .
-
- zones may be mixed on the system up to the total system capacity of 128 zones.*
 - ⚡ **up to 144 low current outputs...** using P4216 modules – 16 outputs per module – 9 modules per system.
 - ⚡ **up to 64 relay outputs...** using P4204 quad relay/ power supply modules – up to 16 modules/system – the P4204 also provides up to 16 amps of auxiliary power and can be used to repower the Combust.
 - ⚡ **point/ graphic annunciation...** using P4632/P4664 remote annunciators for system, partition and zone annunciation
 - ⚡ **up to 32 access-controlled doors...** using up to 16 P4820 two reader access control modules with standalone capability.
 - ⚡ **X-10 automation...** using the Escort P4580 module – controls up to thirty two X-10 devices and provides voice-assisted system status and control from any touchtone telephone.
 - ⚡ **system printer or DVACS communicator...** using the P4400 printer/DVAC interface module. (**DVAC is for the Canadian market*)
 - ⚡ **backup alarm communication using :**
 - Links1000™ cellular communicator
 - Links2150™ or Links2450™ long range radio transmitters.
- All of the features, functions, and expansion capabilities of the P-16-128 control panel are included in the P-16-128F versions.*

Electrical Specifications

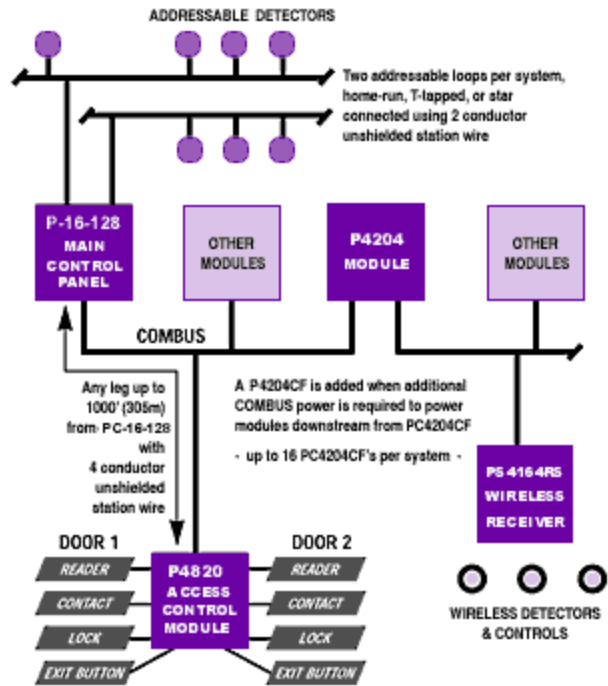
- ⚡ **bell output**... 12VDC, 700mA max. continuous
 - up to 2A for 4 minutes using battery assist.
 - PTC over current protected – self-restoring.
- ⚡ **AUX+ output**... 12VDC, 500mA max.
- ⚡ **SAUX+ output**... 12VDC, 300mA max.
 - SAUX+ output is normally +12VDC and power is removed upon activation. Typically used to reset 4-wire smoke detectors.

Note... total for AUX+ output and SAUX+ output is 500mA max. e.g. If the SAUX+ output is loaded to 200 mA then only 300mA remains for the AUX+ output.
- ⚡ **AUX+ and SAUX+ outputs protected by a common PTC overcurrent device which is self-restoring.**
- ⚡ **PGM outputs :**
 - as standard PGM outputs... 12VDC, 50mA max. each. PGM outputs are normally unpowered and switch to +12VDC upon activation.
 - as addressable outputs... 12VDC, 170mA max. each

Note... PGM outputs are individually programmable as addressable loops or as general purpose PGM outputs.
- ⚡ **Combus** ... 500mA max. from the P4020 main panel
 - additional power is provided by P4204 modules. Maximum Combus capacitance is 80nF which is typically 4,000 feet of 22AWG wire. Consult wire manufacturer for specifications of wire to be used.

Note... total loading for the Bell output, AUX+, SAUX+, PGM1, PGM2 and the Combus must not exceed 900mA. This limit may be exceeded by bell output if extra current required is drawn from the battery.
- ⚡ **battery charger** ... up to 350mA to charge 12volt lead-acid batteries up to 14AH capacity. Battery charger is supervised for opens and is protected by PTC over current

Typical System Arrangement



Ordering Information

P-16-128... security control panel which includes :

- P-16-128... main control module
- P4050C... beige cabinet
- installation manual, user manual, and programming worksheets
- module mounting hardware and 32 EOL resistors

P-16-128CB... as P-16-128 but with P4050CAR attack resistant cabinet and P4050CARC attack resistant inner cover

Keypads are not supplied with the main panel – at least one keypad is required per system. Select from the following keypad types :

PRS400... alphanumeric keypad with 5 function keys

PRS400T ... as LCD4501 but with wall tamper switch

PRS400F/FT, PRS400FR/FTR... identical to the above but with red bezels for use

device which is self-restoring.

⚡ **input power**... 16VAC, 40VA

⚡ **ground fault detection**... built-in and enabled by connecting earth ground to EGND terminal on P-16-128 main panel. (use for 'CF' version panels only)



Mechanical Specifications

⚡ **operating environment**
 - 32 to 122°F (0 to 50°C)
 - 90% RH non-condensing

⚡ **P4050C beige cabinet :**
 - surface mount
 - hinged door with screw closure.
 - provision for door keylock
 - provision for door and wall tamper switches.
 - space for two 12volt 7Ah lead-acid rechargeable batteries.
 - 14.8" H x 12.0" W x 4.9"D (37.6 x 30.5 x 12.5cm)

with P-16-128CF fire panels.



Listings

USA (1), (2)

- UL1610 ...Central Station Burglar Alarm
- UL609 ...Local Burglar Alarm
- UL365 ...Police Station Burglar Alarm
- UL985 ...Household Fire Warning
- UL1023 ...Household Burglar Alarm
- (1) At least one fire version keypad must be used with Premier UL listed 'CF' commercial fire panels
- (2) The Links1000™ Cellular Communicator has not been investigated by UL

CANADA

- ULC-S527 ...Central Station Fire Alarm
- ULC-S302 ...Central & Monitoring Station .. Burglar Alarm
- ULC-S303 ...Local Alarm ..(Commercial Burglary)
- ULC-S310 ...Household Burglar Alarm
- ULC-S545 ...Household Fire Warning
- UL294 ...Access Control



[Back to Products List](#)

[Top of Page](#)