WIRELESS CONTROLS & DETECTORS

WLS908…Panic Pendant

- **Press 2 buttons for 2 seconds to initiate a panic alarm**
- **Water-resistant**
- **Pendant test function**
- **Supervised for low battery**
- **Each pendant is a wireless zone**
- **Sealed non-replaceable battery**

WLS909…Wireless Key

- **4 programmable function buttons of user's choice, such as…** STAY arm, AWAY arm, Disarm, Fire, Auxiliary, Panic, Command Outputs
- **Supervised for low battery**
- **3 A76 batteries (supplied)**

WLS910…Handheld Keypad

- **Performs most hardwired keypad functions, including entry of access code to arm/disarm system**
- **Keys 1-4 are programmable function keys**
- **Separate F, A, P, keys**
- **Supervised for low battery**
- **3 AAA batteries (supplied)**

WLS904…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 18.3 m)
- **High traffic shutdown**
- **Fully supervised****
- **4 AAA batteries (supplied)**

WLS904P… Pet-Immune PIR Motion Detector

- **Vertical Beam Shaping lens*****
- **Coverage up to :** 40'L x 40'W (12.2 x 12.2 m)
- **For multiple pets - 60 lbs (27.3 kg) total weight**
- **Good false alarm immunity & catch performance**
- **High traffic shut-down**
- **Fully supervised****
- **4 AAA batteries (supplied)**

With PET IMMUNITY 60 30

WLS907…Slim-Line Transmitter

- **May be used as a magnetic door or window contact or terminal connection for an external contact**
- **2 reed switch contacts for ease of placement**
- **Fully supervised****
- **3 AAA batteries (supplied)**

WLS912…Glassbreak Detector

- **Exceptional microphone frequency range provides excellent sound capture at low sound levels and distances up to 25 ft (7.6 m)**
- **Detects breakage of all common types of framed glass including plate, wired, tempered, and laminated**
- **Fully supervised****
- **3 AA batteries (supplied)**

WLS914…Dual Element Pet-Immune PIR

- **Multi-level signal processing (MLSP)**
- **Two dual element low noise sensors**
- **High white light immunity**
- **Temperature compensation**
- **Fully supervised****
- **40'L x 50'W (12.2 x 15.2 m) coverage**
- **4 AA batteries (supplied)**
- **For a pet weighing up to 85 lbs (38 kg)**

With PET IMMUNITY 85

WLS915…Door/Window Contact

- **A magnetic door or window contact**
- **Complete with surface-mount magnet**
- **Fully supervised****
- **1 lithium battery (supplied)**

WLS906*…Photoelectric Smoke Detector

- **90° smoke detection pattern**
- **Automatic self test**
- **Manual test button**
- **Loud 85 dB alarm horn**
- **Fully supervised****
- **6 AA batteries (supplied)**

UL   ULc

**   Supervised for tamper, device fault, low battery   * for residential applications only
***   Patent pending

HARDWIRED EXPANSION

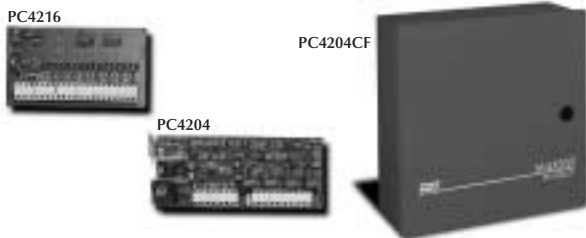## INPUT

PC4108A/4116… 8/16-Zone Expansion Modules
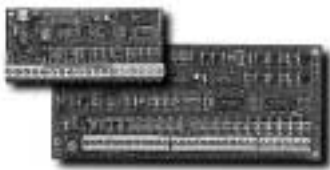
- **PC4108A…** 8-zone input module
- **PC4116…** 16-zone input module
- **30 programmable zone types…**
  - all zones programmable as NC, EOL, and DEOL
- **250 mA, 12 V$_{DC}$ auxiliary power for local devices**
- **Add up to 112 zones on PC4020/4020CF**

OUTPUT

PC4216

PC4204CF

PC4204

PC4216… 16-Zone Low Current Output Module

- **16 programmable outputs**
- **Outputs rated for 50 mA @ 12 V$_{DC}$**
- **59 programmable output options**
- **Up to 9 modules/system for 144 total outputs on all systems**

PC4204 Power Supply/4-Relay Output Module

- **Up to 1.0 A @ 12 V$_{DC}$ power for…**
  - Combus power   - local input devices   - local output signals
- **4 form 'C' programmable relays**
  - contacts rated for 2 A @ 30 V$_{DC}$
- **59 programmable output options**
- **Supervised for…**
  - AC power fail   - aux. supply fault   - low/disconnected battery
- **PC4020…** up to 16 modules per system for 64 relays total

PC4204CF Power Supply/4-Relay Output Module

Packaged version of PC4204 for UL Listed commercial fire systems…
- **Up to 550 mA @ 12 V$_{DC}$ power for…**
  - Combus power   - local input devices   - local output signals
- **PT1016 transformer…16 V$_{AC}$, 40 VA** (supplied)
- **PC4052CR cabinet, red**
- **Space for one additional PC4108A module**
- **Space for two 7 Ah rechargeable lead acid batteries**
…all other specs the same as the PC4204

ANNUNCIATORS

PC4632/4664… Point/Graphic Annunciators

PC4632   PC4664
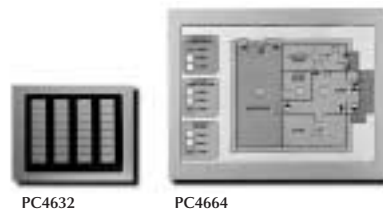
Remote system annunciators for point or graphic display of zone, partition, and system status information…
- **Display up to 144 points per system with multiple annunciators**
- **Connect anywhere on the Combus**
- **Egg-crate backplane for flexible indicator location**
- **Red, yellow, and green LED assemblies**
- **Pre-printed point display transparency**
- **Clear transparencies (2) for custom graphics**

PC4632… 32 point - 8.5" x 11" (21.6 x 27.9 cm) display area
PC4664… 64 point - 11" x 17" (27.9 x 43.2 cm) display area

PC4612/PC4612A… 12 Zone Fire Annunciators

PC4612

PC4612A

- **Point annunciation of…**
  - 10 fire zones
  - 2 supervisory zones
  - common zone trouble
  - common bell trouble
  - system trouble
  - 'AC ON' LED
- **PC4612…** matches LCD4500 style keypads
- **PC4612A…** matches LCD4501 style keypads

PC4401… Serial Interface Module…

- **Multiple Uses:**
- **Printer interface**
  - print time and date - stamped report of… alarms, openings, closings, diagnostic messages
  - supports 300, 1200, 2400, and 4800 bps serial printers

- **DVACS high security communications interface**

- **DataLink™ data port**
  - RS-232 serial interface
  - program from 300 to 4,800 bps
  - allows integrators real-time access to all system events and the ability to send instructions to MAXSYS

- **DLS-3 SA System Administrator Software**
  - Windows®-based
  - user friendly
  - program and control all MAXSYS functions from a PC

Windows is a registered trademark of Microsoft Corp.

MAXSYS®
INTEGRATED SYSTEMS TECHNOLOGY
v3.2

System Overview

MAXSYS meets today's challenges with the seamless integration of security, access control, fire alarm, automation, and intercom features that single function systems cannot match.

Hardwired input/output expansion over a 4-wire Combus, wireless input expansion, and 2-wire addressable input expansion all combine for installation simplicity, flexibility, and economy.

Tomorrow's challenges are solved today because access control, fire alarm, Escort audio-assist and automation features are designed into the MAXSYS security panel, ready to be implemented when you need them.

Up to 20 Keypads
- **Up to 16 hardwired and 4 wireless keypads; choose from :**
  - LCD4500 & LCD4501 series plain language keypads
  - LCD4520 & LCD4521 series plain language keypads with red bezels
  - WLS910 wireless handheld keypad

Expand Up to 128 Zones
Hardwired Expansion
- **Up to 128 zones using…**
  - PC4108A 8-zone expansion modules
  - PC4116 16-zone expansion modules

Addressable Expansion
- **Up to 112 addressable zones using… DSC** addressable devices on 2 addressable loops

Wireless Expansion
- **Up to 64 wireless zones using…** PC4164 wireless receiver and DSC wireless detectors

8 Partitions…… *NEW* 1,500 User Codes

3,000 Event Buffer

Local & Remote Upload/Download

Advanced Communications
- **Supports SIA, Contact ID, and 20 bps formats**
- **LINKS 1000™ UL Listed cellular communication**
- **LINKS 2150™ and LINKS 2450™ long range radio communication**
- **SKYROUTE™ Cellemetry† communication**
- **SURE SIGNAL Mobitex packet data radio communication**
- **DVACS†† communication using PC4401 module**
- **Central station talk/listen-in**
- **Event-initiated personal paging**
- **9 account numbers and 3 phone numbers**

† Cellemetry is a service mark of Cellemetry LLC †† DVACS is a trademark of Electro Arts Limited

Ease of Installation
- **Addressable loop expansion**
  - integral 2-wire addressable loops expand the system to full zone capacity without the added cost of system expansion modules
- **Combus hardwired expansion**
  - simple hardwired system expansion using standard, non-shielded, 4-conductor station wire to connect hardwired keypads and modules up to 1,000 ft (305 m) from the main control panel

Output Expansion
- **Max of 144 low current outputs using…** up to 9 PC4216 16-output modules
- **Max of 64 relay outputs using…** up to 16 PC4204 or PC4204CF power supply/4-relay output modules

Annunciation
- **Point/graphic annunciation using…**
  - PC4632 32-zone annunciator
  - PC4664 64-zone annunciator
- **Fire zone annunciation using…** PC4612 and PC4612A 12-zone fire annunciators
- **System printer using…** PC4401 serial output module

Integrated Access Control
- **32 doors using…** 16 PC4820 2-reader access control modules
- **1,500 access cards**
- **Multiple reader technologies…** Polaris mag-stripe, ShadowProx proximity, HID proximity, I/O Prox proximity, 26 bit standard Wiegand

Integrated Voice-Assisted Security & Building Automation
- **Escort4580…** operates in conjunction with any DTMF (tone) telephone to provide voice-assisted security and automation control for up to 32 X-10 devices

UL/ULC Central Station Fire Alarm
- **All the features of the standard security versions *plus* special fire system modules…**
  - PC4701 fire module with supervised smoke zone, waterflow zone, and dual supervised communicator outputs
  - PC4612 and PC4612A 12-zone fire annunciators
  - PS4350R fire system external battery charger
  - PC4204CF power supply/4-relay output panel
  - LCD4520 & LCD4521 series plain language keypads with red bezels

SECURITY

PC4020 Security Control Panel

- **16-zone main panel**
- **Expandable to 128 zones**
- **2 addressable loops for up to 112 addressable devices**
- **up to 16 LCD keypads per system**
- **8 partitions**
- **1,500 user codes (4 or 6 digit)**
- **3,000-event buffer**
- **9 account and 3 phone numbers**
- **1 supervised bell zone**

- **PC-LINK™ for local upload/download**
- **Remote upload/download with DLS-3 software**
- **Supervised digital alarm communicator**
- **Optional attack-resistant cabinet**
- **Space for two 7 Ah lead-acid rechargeable batteries**

LCD4500/4501 Plain Language Keypads

LCD4500

LCD4501

- **2-line, 32-character display**
- **Adjustable display brightness and contrast**
- **LCD display and keys backlit for low light viewing**
- **'Backlighting Boost' on LCD4501 for low light conditions**
- **Display zone and system status, trouble conditions, event buffer, and system instructions**
- **Piezo buzzer provides audible feedback for correct/incorrect key entries, entry/exit alert, and system trouble conditions**
- **Global or partition operation**
- **4 keypad-activated alarms… panic, auxiliary, fire, and duress**
- **5 programmable keypad functions**
- **Separate function keys on LCD4501**
- **Trouble and Armed LEDs on LCD4500**
- **Trouble, Armed, and Ready LEDs on LCD4501**
- **Trouble buzzer**
- **Tamper versions available**

ACCESS CONTROL

PC4820 Two Reader Access Control Module

- **16 modules per system**
- **32 readers total**
- **1,500 access cards**

- **Full off-line operation**
- **Arm/disarm partitions and postpone auto-arm by access card or access card and code from outside the protected space**
- **2 low current outputs per door**
- **4 inputs per door…** door contact, request-to-exit input, arm, and postpone auto-arm
- **64 access levels**
- **99 seven-day schedules**
- **4 holiday groups, 730 holidays**
- **Individual door unlock schedules**
- **Fully supervised**
- **Program via keypad, or via computer with DLS-3 downloading software**
- **1.5 A regulated power supply**

- **Power available per door…**
  reader… 125 mA max. @ 5 V$_{DC}$ or 250 mA max. @ 12 V$_{DC}$
  lock…… 250 mA max. @ 12 V$_{DC}$
- **Auxiliary power…** 125 mA @ 12 V$_{DC}$
- **Battery req'd…** 12 V$_{DC}$, 7.0 Ah
- **Transformer req'd…** 16.5 V$_{AC}$, 40 VA

PC4850 Telephone Entry Module

- integrates access control with apartment building telephone entry
- up to 16 PC4850s to control up to 32 doors
- 1,500-name, fast scrolling, electronic directory
- 12-digit phone numbers

Multiple Reader Technologies

Polaris… Mag-Stripe Readers/Cards, 26-bit standard Wiegand

I/O Prox… Proximity Readers/Cards

ShadowProx… Proximity Readers/Cards

HID… Proximity Readers/Cards

FIRE ALARM

PC4020CF Fire Control Panels

All the security features of the PC4020 plus added fire features…

- **Red cabinet**
- **PC4701 fire module includes…**
  - … one 2-wire Class B / Style B supervised smoke zone
  - … one Class B / Style B waterflow zone
  - … dual supervised digital alarm communicator outputs
  - … common fire alarm & fire trouble relays, form 'C', 2 A, 30 Vᴅᴄ contacts
- **All panel and expansion zones are configurable for waterflow, or fire supervisory**
- **UL / ULC Listed for Central Station Fire Alarm**

AUTOMATION

Escort4580 Voice-Assisted Security & Building Automation Module

The Escort4580[1] allows the telephone to be used as a keypad while providing the user with plain language operational and programming voice prompts, and system status reports.

In addition, Escort acts as an interface to X-10 automation control devices and provides voice-assisted operation and programming of these devices.

System Status & Control - Voice Prompt Assisted…

- **System status from any local or remote DTMF (tone) telephone**
- **System control using any local or remote DTMF (tone) telephone**
- **Global or partition access**
- **180 word standard library and 241 word user-programmable library**
- **Up to 6 words per voice prompt**

Automation Control…

- **Built-in power line interface for up to 32 X-10 control devices**
- **Programmable event activation using 16 event timers and 8 schedules**
- **Control outputs via local or remote DTMF (tone) telephone keypad**

[1] The Communiqué VPM4580 can be used in place of the Escort4580 when a Communiqué telephone system is used in conjunction with MAXSYS

LCD4520/4521 Plain Language Keypads

LCD4520   LCD4521

- **Identical to the standard security keypads but with red bezels.**

PS4350R Fire System External Battery Charger

External battery charger c/w…
- **PC4055CR cabinet, red**
- **PS4085 multi-rate charger module**
- **PT1012 transformer…** 12 Vᴀᴄ, 160 VA
- **Space for 65 Ah lead-acid battery**

INTERCOM

PC4936 Audio Interface Module
PC4937 Expansion Module
PC5921 Intercom Stations
PC5904 2-Way Listen-In Station

- **PC4936 audio interface module (7 ports) with PC4937 expansion module (8 ports)…** provides 15 output ports for connection of up to 15 PC5921 series intercom stations
- **Local intercom functions…**
  - page/answer
  - do not disturb
  - doorbell function
  - door strike release
- **Listen-in broadcast …** allows any station to be programmed as a 'broadcast station' to which all other internal stations in the system may listen in

- **Answer telephone calls received on a regular voice line…**
  - ringing programmable by station   - supports call waiting
  - allows call transfer to in-house phones
- **Use as sounder for fire / burglar alarms**
- **Audio user help…plus verbal alarms & verbal door chime**
  - provides plain language system status reports including verbal alarms and door chime annunciation, as well as voice prompts for system programming and operation when installed with Escort4580 Voice Prompt Module and keypads mounted with PC5921 intercom stations
- **PC5904 central station 2-way listen-in station…**
  - control tones programmable from central station
  - select zone, listen/talk, extend on-line time, hang up

ADDRESSABLE EXPANSION

Use 2-wire addressable loops to easily expand to full system capacity without the added cost of system expansion modules.

PC4020 .... add up to 112 addressable devices on *two* addressable loops

AMA-100… Acuity Glassbreak Detector

- Exceptional microphone frequency range provides excellent sound capture at low sound levels and distances up to 25 ft (7.6 m)
- Detects breakage of all common types of glass, including plate, wired, tempered, and laminated
- Built-in tamper switch
- AFT-100 glassbreak tester available

AMS-220 Series… Photoelectric Smoke Detectors

AMS-220… 2-wire smoke detector

AMS-220T… includes 135°F (57°C) fixed temp. heat sensor

- Red solid-state LED indicator light
- Magnet-activated sensitivity test switch
- Continuous self-test for low sensitivity
- Manual and programmable scheduled tests for low sensitivity and alarm operation
- Locking / non-locking mounting plate

AMB-300… Passive Infrared Motion Detector

- Multi-level signal processing (MLSP)
- Dual element low noise sensor
- High level static and transient protection
- High white light and RF immunity
- Temperature compensation
- Tamper switch
- Up to 50'L x 60'W (15.2 x 18.3 m) coverage
- 4 lenses available

AMB-500… Ceiling-Mount 360° PIR

- Ceiling-mount
- Quad element low noise PIR
- High white light & RF immunity
- Multi-level signal processing
- Temperature compensation
- Up to 40' dia. (12.2m) coverage

AMB-600… Dual Element Pet-Immune PIR

- Multi-level signal processing (MLSP)
- Two dual element low noise sensors
- High static and transient protection
- High white light and RF immunity
- Temperature compensation
- Tamper switch
- 40'L x 50'W (12.2 x 15.2 m) coverage
- For a Pet weighing up to 85lbs (38 kg)

WITH PET IMMUNITY 85

AMP-700 Series… Contact Modules

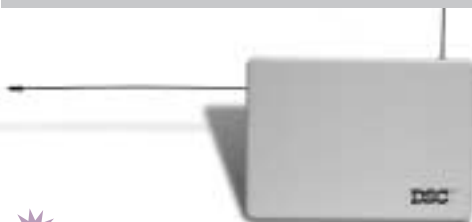**AMP-700…** magnetic door / window contact with built-in tamper switch

AMP-701… 3 inputs to monitor external NC alarm, tamper, and trouble contacts

NEW
AMP-702… fire point module with 5600Ω EOL supervised loop that monitors N/O contacts

WIRELESS EXPANSION

RECEIVER

PC4164…Wireless Receiver

NEW
Distributed wireless reception…
- install up to 8 wireless receivers… cover large areas with wireless detectors and allow wide area roaming with wireless panic pendants, wireless keys, and keypads

- Capacity … 64 wireless zones (PC4020)
  … 16 WLS909 wireless keys
  … 4 WLS910 wireless keypads
  (in addition to hardwired keypads)
- All detectors are fully supervised for communication integrity
- Easy sensor enroll process