

# DSC® Power 832®

## Security System



### Up to 12 Keypads

- up to 8 hardwired keypads and 4 wireless keypads
- 4 hardwired keypads available *with zone input...*
  - PC5508Z eight zone LED keypad
  - PC5516Z sixteen zone LED keypad
  - PC5532Z thirty two zone LED keypad
  - LCD5500Z alphanumeric keypad
- WLS910... wireless handheld keypad
- added wireless control is provided by ...
  - WLS908... wireless panic pendant
  - WLS909... wireless key

### 32 Zones Hardwired or Wireless ... 2 Partitions

#### Hardwired

- 8 zones on main panel
- PC5108 - 8 zone expansion module
- PC5108L - 8 zone expansion module *plus* Downlook video on Power832 PC5015 panel
- PC5100 - 32 zone addressable multiplexed loop interface module
- PC5700 *...Canada only* - 4 general purpose zones, 2 waterflow zones, 1 ground fault zone, *plus* dual supervised telephone lines
- PC5720 *...Canada only* - 5 general purpose zones, 2 waterflow zone, 1 ground fault zone, *plus* printer or DVACS communications

#### Wireless

- PC5132 - 32 zone wireless zone expansion module

### 14 PGM Outputs

- up to 5 high current outputs... 1 on main panel *plus* :  
PC5204 - 4 output high current power supply module
  - 1 output fully supervised for siren output
- up to 9 low current outputs... 1 on main panel *plus* :  
PC5208 - 8 low current output module

### Advanced Communications

- supports all major formats including SIA and Contact ID
- LINKS1000™ cellular communication
- LINKS2150™ and LINKS2450™ long range radio communication
- DVACS communication using PC5400 or PC5720 modules
- Downlook video transmission using PC5108L module on Power832 PC5015 main control panel
- event initiated personal paging
- 3 phone numbers (3rd backs up primary number)
- 2 account numbers

### Integrated Intercom Audio

- supports Central Station Two Way Voice and Home Intercom features using PC5928 audio interface module, PC5921 intercom stations, and PC5904 two way listen-in stations

### Integrated CCTV

- supports Downlook still frame video transmission using PC5108L module on Power832 PC5015 main control panel
- provides local VCR/monitor video switching for 8 cameras

### Integrated Voice Assisted Security & Home Automation

- Escort5580 & 5580TC provide voice assisted security *and* automation control for up to 32 X-10 devices *plus* thermostat control on 5580TC

### Efficient Installation

- 4 wire communications bus (KEYBUS)
  - connect modules up to 1000' (305 m) from control panel
  - PC5204 - 4 output high current power supply module provides up to 1A auxiliary power
  - main panel provides up to 550 mA auxiliary power

- **PC5010 main control panel - alarm only**
- **PC5015 main control panel - alarm plus Downlook video capability**
- **support up to 32 zones using any combination of up to :**
  - 8 hardwire zones on main panel
  - 8 hardwire zones using PC5108L video matrix module  
*(on PC5015 only)*
  - 4 general purpose hardwire zones and 2 waterflow hardwire zones using PC5700 fire module *(in Canada only)*
  - 24 hardwire zones using PC5108 eight zone expander modules
  - 8 keypad zones
  - 32 wireless zones using PC5132 wireless receiver module
- **zone programming**
  - all zones programmable as burglary or fire
  - zone options include : Normally Closed loop, Single End of Line (EOL) resistor, and Double EOL resistor<sup>(1)</sup>  
*(<sup>(1)</sup>keypad zones cannot be programmed as fire zones and cannot support Double EOL resistor supervision)*
  - 27 programmable zone types, 8 programmable zone options
- **audible alarm output**
  - supervised bell output - 700mA @ 12VDC, PTC protected, current limited at 3A
  - steady, pulsed, temporal pattern, or strobe fire output
  - additional supervised siren output is available using PC5204 power supply module
- **programmable voltage outputs**
  - 1 high current 300mA PGM... can also be used for 2 wire smoke with a maximum of 20 detectors at 15mA per detector
  - 1 low current 50mA PGM
  - 8 additional low current PGM outputs using PC5208 module
  - 4 additional high current PGM outputs using PC5204 module
  - 24 programmable options
- **local PCLINK™ and remote upload/download capability**
  - program system using DLS software and direct PC connection to control panel or via remote PC over telephone line
  - view status and trouble conditions, and system 128 event buffer
  - remote access can be controlled by owner to prevent unauthorized access to system
- **power supply**
  - 550mA @ 12.5VDC auxiliary power (400mA for UL applications)
  - positive temperature coefficient (PTC) protected battery, AUX, and Bell output
  - electronic protection of KEYBUS
  - supervision of AC power loss, low battery, auxiliary power failure
  - internal clock locked to AC power frequency
- **EEPROM memory**
  - will not lose programming or system status on complete AC and battery failure
- **digital communicator**
  - supports all major formats including SIA & Contact ID
  - supports LINKS1000™ cellular communications
  - supports LINKS2150™ and LINKS2450™ long range radio communications
  - 3 phone numbers (3rd backs up primary)
  - 2 account numbers           - DTMF or pulse dialing
  - DPDT line seizure           - anti-jam feature
  - split reporting of selected events to each telephone number
  - event initiated personal paging
- **battery required** : 12V, 4Ah, rechargeable sealed lead acid
- **transformer required** : 16.5VAC, 40VA

## System Operation

- **2 system partitions...** 2 account numbers
  - each partition acts as a separate alarm system with any number of zones, user codes, keypads and individually programmable features
- **38 - 4 or 6 digit access codes**
  - 32 user codes, 1 system master code, 2 partition master codes, 2 duress codes, and 1 maintenance code
- **automatic arming by partition**
  - each partition may be programmed to auto-arm at its own time each day
- **keypad lockout**
  - panel can be programmed to lockout keypad if a series of incorrect access code entries are made
- **'quick arm' and 'quick exit'**
  - allows users to arm and exit easily
- **'stay/away' zones and 'stay' arming**
  - security of perimeter arming while premise is occupied
- **door chime**
  - programmable by zone
  - monitor a door by having keypad beep when the door is opened and again when door is closed
- **128 event buffer**
  - all events automatically stored with time and date stamp to buffer
  - events can be printed on-site using the PC5400 serial printer interface module, viewed through an LCD Keypad, or viewed and printed via PC using DLS software

## Full Supervision

The system continuously monitors the following trouble conditions :

- **AC power failure**
- **fire trouble**
- **low battery**
- **loss of internal clock**
- **fail to communicate**
- **module fault (supervisory or tamper)**
- **camera troubles** *(on PC5015 with Downlook)*
- **trouble by zone**
- **telephone line trouble**
- **bell output trouble**
- **tamper by zone**
- **aux power supply fault**

## False Alarm Prevention Features

- **audible exit delay**
- **quick exit**
- **swinger shutdown**
- **recent closing transmission**
- **double hit timer\***
- **rotating keypress buffer**
- **audible exit fault**
- **urgency on entry delay**
- **cross zone alarm**
- **burglary verified timer\***
- **communication delay**
- **arm/disarm bell squawk**

*\* on PC5015 v2.2x and higher*

## LCD5500Z Plain Language Keypad



The Power832 security system is fully programmable from the attractive, easy to use dual-language LCD5500Z keypad :

- **connect up to 8 keypads, combination LED and/or LCD**
- **zone input**
  - connect detector to keypad to avoid separate wiring back to panel
- **multi-language** (*languages vary according to country*)
  - simple key entry to toggle between languages while viewing keypad
- **rotating keypress buffer reduces access code entry false alarms**
- **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
- **automatic scrolling of alarms in memory**
  - scrolls through alarms in memory while keypad is idle
- **12 hour or 24 hour clock display**
- **5 programmable function keys with 25 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
  - adjustable buzzer tone
- **connect to 4 wire KEYBUS up to 1000' (305 m) from control panel**
- **specifications**
  - current draw : 85mA with backlighting boost
  - dimensions : 5.75"W x 4.5"H x 1"D (144 x 114 x 25mm)

## LED Keypads



The Power832 system is fully programmable from any of the attractive, easy to use, LED keypads :

- **3 keypads available :**

PC5508Z	.....	8 zone LED keypad
PC5516Z	.....	16 zone LED keypad
PC5532Z	.....	32 zone LED keypad
- **zone input**
  - connect detector to keypad to avoid separate wiring back to panel
- **rotating keypress buffer reduces access code entry false alarms**
- **5 programmable function keys with 25 options such as Home Arm, Away Arm, Quick Exit etc.**
- **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... with adjustable buzzer tone
- **connect to 4 wire KEYBUS up to 1000' (305m) from control panel**
- **specifications**
  - current draw : 85mA with backlighting boost
  - dimensions : 5.75"W x 4.5"H x 1"D (144 x 114 x 25mm)

## PC5400 Printer Interface Module



- **both PC5400 and PC5400DV may be used at the same time on a system**
- **provides RS232 serial printer connection for report of events logged to the system event buffer... prints event, partition, time, and date that event occurred**
- **supports any 300, 1200, 2400 or 4800 BPS serial printer**
- **connect printer up to 200' (61m) from PC5400**
- **connect PC5400 up to 1000' (305m) from control panel via KEYBUS**
- **current draw : 65mA @ 12VDC**
- **maximum one module per system**

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## PC5400DV - DVACS Interface Module

- both PC5400 and PC5400DV may be used at the same time on a system
- provides ULC Level 3 Line Security.
- provides full DVACS reporting of all system events.
- module is pre-programmed to SIA zone definitions
- events simultaneously communicated via DVACS and other installed communications mode such as digital or cellular
- full cross supervision between the system control panel and the DVACS module e.g... problems with one will be communicated to the central station by the other.
- central station requires Sur-Gard receiver with DVL2A version 2 or higher software.
- complete with 8 pin jack, and communications and power cables for connection to F1/F2 subset.
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 65mA @ 12VDC

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## Hardwired Expansion

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### PC5108 - 8 Zone Expansion Module

- adds 8 hardwired general purpose burglary or fire zones
- provides 100mA @ 12VDC auxiliary current, PTC protected
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 35mA @ 12VDC

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### PC5100 - 32 Zone Addressable Loop Interface Module

- add 32 DSC addressable devices on a 2-wire multiplexed loop. Devices include :
  - AMA-100... glassbreak detector
  - AMS-220 series... photoelectric smoke detectors
  - AMB-300... PIR motion detector
  - AMB-500... ceiling mount 360° PIR
  - AMB-600... dual element pet immune PIR
  - AMP-700 series... contact modules
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 40mA @ 12VDC
- addressable loop maximum current draw : 170mA @ 12VDC
- compatible with PC5010 v2.x and PC5015 v2.x or higher

832 ...Canada only

### PC5700 Fire Zone Expansion Module

- a zone expansion module which provides :
  - dual supervised telephone lines
  - 2 Class A supervisory waterflow zones
  - ground fault detection zone
  - 4 general purpose fire or burglary zones
- tamper and trouble reporting codes
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 150mA @ 12VDC

832 ...Canada only

### PC5720 Fire / Printer / DVACS Module

- a zone expansion module which can also be used to provide either a serial printer or DVACS communications interface

#### • 8 zone inputs include :

- 2 Class A supervisory waterflow zones
- ground fault detection zone
- 5 general purpose fire or burglary zones

#### • as RS232 printer interface :

- baud rates... 300, 1200, 2400, 4800
- connect printer up to 200' (61 m) from the PC5720 module

#### • as DVACS interface : same as PC5400DV

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## Wireless Expansion

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### PC5132 Wireless Receiver



#### • add up to 32 DSC wireless detectors\* including :

- WLS904 ..... passive infrared alarm
- WLS906 ..... photoelectric smoke alarm
- WLS907 ..... universal transmitter/contact
- WLS912 ..... glassbreak detector
- WLS914 ..... dual element pet immune PIR
- WLS915 ..... door/window contact
- WLS917 ..... recessed door/window contact

#### • 900 MHz true 'Spread Spectrum' technology, fully supervised for communication integrity

- easy sensor enroll process
- supervisory transmissions every 12 minutes
- programmable 1-24 hr supervisory window
- connect up to 1000' (305 m) from control panel via KEYBUS
- module current draw : 130mA @ 12VDC

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## Wireless Control Devices



#### WLS908 Wireless Panic Pendant

- communicates a non-medical alarm to central station
- 32 pendants maximum...each occupying 1 alarm zone
- sealed non-replaceable battery

#### WLS909 Wireless Key

- remote arm/disarm control
- up to 16 keys per system
- 3 photo/electronic 1.5V batteries included

#### WLS910 Wireless Hand-Held Keypad

- personal remote keypad
- up to 4 wireless keypads per system (in addition to hardwired keypads)
- 3 'AAA' batteries included

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## Integrated Voice Assisted Security & Home Automation



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### ESCORT 5580 Voice Assisted Security & Automation Control Module

- turns any touch-tone phone into a fully functional keypad with Global and Partition control
- built-in power line interface for control of 32 X-10 automation control devices
  - 16 schedules with On Time, Off Time, and Day of Week
  - 8 user controlled automation modes
  - full range of dimming levels for lighting control
  - event activated control for any PGM output supported by the main panel
- an extensive library of voice prompts for security and automation operation, programming, and system status feedback
  - 250 system words for pre-programmed system functions
  - 240 word library for user programmable voice prompts for Automation Item Labels, Automation Mode Labels, Partition Labels, and Zone Labels
- program up to 6 words per voice label
- powerful 'say number' command can announce numbers from 0-999 in three different ways
- connect up to 1000' (305m) from control panel via KEYBUS
- module current draw : 150mA @ 12VDC

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### ESCORT 5580TC

- all the features of the Escort 5580 plus thermostat control
- supports up to four EMS-100 thermostats
- EMS-100 has 4 temperature control modes :
  - day occupancy mode
  - night occupancy mode
  - auxiliary occupancy mode
  - away occupancy mode
- each thermostat optionally supports :
  - up to six EMS-IDS remote indoor temperature sensors for interior temperature averaging
  - one EMS-ODS outdoor temperature sensor for display of outdoor temperature

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## Integrated Intercom Audio Interface



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### PC5928 Audio Interface Module with PC5921 Series Intercom Stations & PC5904 Two Way Listen-In Stations



#### PC5921 Internal Intercom Station

also available :

PC5921EXT...external intercom station

PC5921EXT/R...external intercom station with relay for operation of existing door bell

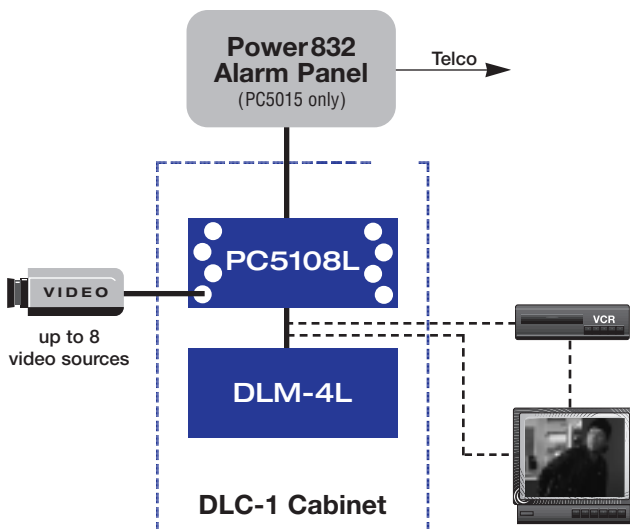
- **PC5928 Audio Interface Module**
  - provides 7 output ports for connection of PC5921 Series Intercom Stations
  - connect up to 1000' (305m) from control panel via KEYBUS
- **local intercom functions :**
  - page/answer
  - do not disturb
  - doorbell function
  - door strike release
- **listen-in broadcast** ...allows any station to be programmed as a 'broadcast station' to which all other internal stations in the system may listen in
- **programmable as sounder for fire/burglar alarms**
- **answer telephone calls received on regular voice line**
  - ringing programmable by station
  - supports call waiting
  - allows call transfer to in-house phones
- **audio user help**
  - provides plain language prompts for system programming, operation, and system status reports when installed with Escort 5580 Voice Prompt Module and keypads mounted with PC5921 Intercom Stations
- **PC5904 central station 2-way listen-in station**
  - programmable control tones (from central station)
  - select zone, listen/talk, extend on-line time, hang up



### PC5108L Downlook Interface Module

\*\*\*for PC5015 only\*\*\*

- provides an interface between the PC5015 alarm control panel and the Downlook DLM-4L still frame video transmission module
- communicates alarm followed by video over a single telephone line in one transmission to a Sur-Gard MLR2 digital receiver
- 8 inputs for video cameras, VCRs, or video switchers
- 8 general purpose burglary or fire alarm zone inputs
- any alarm zone (up to 32) or group of zones can be programmed to initiate video capture of 4 frames from any 4 sources - in any sequence
- programmable on-site sequential video switcher mode
  - view and capture images on a monitor / VCR setup
  - select cameras for viewing manually using an LED keypad or program system to switch automatically between selected cameras at programmed dwell times
- supervised by main panel
- programmable via downloading using modem or direct PC-Link
- connect up to 1000' (305m) from control panel via KEYBUS
- module current draw : 60mA @ 12VDC



### PC5204 Power Supply / High Current Output Module

- provides 1A @ 12.5VDC auxiliary power for additional modules and devices
- includes 4 fully programmable high current outputs
  - rated at 1A @ 12VDC, PTC protected
  - will provide 3A short term if battery backup connected
  - each output can sink up to 3A
- output #1 may also be used as a supervised bell output
  - 700mA max
- each output programmable to activate for any of 24 options
- connect up to 1000' (305m) from control panel via KEYBUS
- fully supervised for : tamper, low battery, AC power loss, and auxiliary power trouble
- maximum 1 module per system
- module current draw : 20mA @ 12VDC
- battery required : 4Ah minimum
- transformer required : 16.5VAC, 40VA

### PC5208 Low Current Output Module

- module provides 8 low current transistor switch outputs
  - each output can sink up to 50mA
  - up to 250mA max at one time
- each output programmable to activate for any of 24 options
- connect up to 1000' (305m) from control panel via KEYBUS
- fully supervised for tamper
- maximum 1 module per system
- module current draw : 20mA @ 12VDC

— Note —

Power832 Engineer's Specifications are available on :

- separate copy
- DSC's web site '[www.dscsec.com](http://www.dscsec.com)'