

## Digiplex EVO High Security and Access Systems

Digiplex EVO systems provide the highest level of protection for banks, high-security military and government sites, luxurious residential homes and any place where maximum security is essential. These systems are designed to be easy to use and the modular concept of these systems provides installers with labour-saving features that make expanding, installing and servicing these systems quick and convenient.

Expand your system by adding plug-and-play expansion modules anywhere and in any combination on the 4 wire combus. Modules are connected to the combus at the most convenient location and then their zone inputs are assigned to the desired zone and partition. Also, only a module's used inputs are assigned to zones in the system. Keyswitches, remote controls and unused module inputs do not use up zones. Once installed, all combus modules, including motion detectors, can be programmed remotely via a keypad or the WinLoad Installer Upload/Download software.

Digiplex EVO integrate access control solutions. Your alarm system user database can be used to manage the access to up to 32 doors, and the monitoring of these doors can be included in any partitions. You can also use Winload and NEware to manage users and access permissions. By merging security and access control, the Digiplex EVO increases the level of protection offered by security systems to a new level.

Feature	EVO48	EVO192
Maximum Zones*	48	192
On-Board Zones	8 (16 with ATZ)	8 (16 with ATZ)
Partitions	4	8
User Codes	96	999
Multibus	-	✓
Panel In-Field Firmware Upgradeable	✓	✓
Access Control (doors)	32	32
Access Levels / Schedules	16 / 32	16 / 32
Events Buffered	1024	2048
PGMs	250 (2 on board)	250 (5 on board)
PGM +/- trigger	✓	✓
Virtual Zones †	32	32
Expansion Modules*	127	254
GSM Communication (PCS Series) See page 14	✓	✓
GPRS Communication (PCS Series) See page 14	✓	✓
Supports VDMP3 (Plug-in Voice Module) See page 15	✓	✓
Supports IP100 (Internet Module) See page 15	✓	✓
Software	WinLoad / NEware	WinLoad / NEware
Listen-In Capabilities	✓	✓

\* Can be any combination of hardwire, wireless or addressable zones or modules

† Automate PGM activations without occupying security zones

## Control Panels



### EVO48 | Digiplex EVO 48 Zone Control Panel

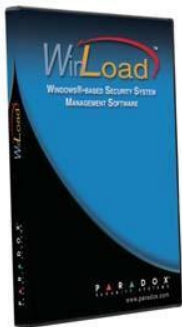
- 8 on-board zones (16 w/ zone doubling) expandable to 48 zones via 4 wire combus
- Built-in access control features
- Supports GPRS and GSM Module (PCS Series), IP Module (IP100) and Voice Module (VDMP3). See "Communication Modules" on page 13.
- In-field firmware upgradeable via 307USB and WinLoad
- Compatible with NEware V4.0 or higher
- V2.10 supports REM3
- Automatic Daylight Savings Time feature
- 2 on-board solid-state PGM outputs (+ 3 optional), negative or positive triggering
- PGM1 can be used as a 2 wire smoke input
- Supports up to 127 expansion bus modules
- 96 user codes
- 4 partitions
- 1024 events buffered
- Program remote controls using the master or installer codes
- Up to 96 remote controls with one RTX3
- Built-in real-time clock backup battery
- 1.7A switching power supply
- 1 supervised bell output, auxiliary output and telephone line
- Patented 2 opto coupler dialer circuit - the most reliable dialer in the industry (US Patents 5751803, RE39406)
- Push button software reset (reset to default values and restart)
- Push button to activate or deactivate the Auxiliary output
- Fits in a 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal box
- The EVO series share the same programming for easy panel substitution



### EVO192 | Digiplex EVO 192 Zone Control Panel

Same features as the EVO48 plus:

- Expandable to 192 zones
- 5 on-board solid-state PGM outputs, negative or positive triggering
- Supports up to 254 expansion bus modules
- 999 user codes
- 8 partitions
- 2048 events buffered
- Up to 999 remote controls with one RTX3



### UDS | WinLoad Installer Upload/Download Software

- Connect to WinLoad via a GPRS connection at data rates of up to 48Kbit/s with a PCS module
- Supports TCP/IP connections through the IP100
- User-friendly programming and monitoring of the Digiplex EVO, Magellan, Spectra SP Series and E55/65 control panels and modules
- Remote uploading and downloading using most standard modems at 300 baud
- On-site (local) uploading and downloading at 57.6k baud (Magellan console), 38.4k baud (EVO) or 9.6k baud (E55/65, MG5000, MG5050 and Spectra SP) using a 307USB Direct Connect Interface (60m/200ft) or a CV4USB Converter (300m/1000ft)
- In-field upgrading feature that allows WinLoad to upgrade the firmware of certain control panels/modules via a 307USB interface or a CV4USB converter
- Multiple users, groups, and databases
- Network-compatible database
- Advanced printing of reports and zone/user programming
- Supports several languages simultaneously (available in English, Spanish, Chinese, Czech, French, Hebrew, Hungarian, Italian, Polish, Portuguese, Russian, Serbo-Croatian, Slovak, Swedish and Turkish)

# DIGI PLEX EVO



## NEware End-User Management Software

### NEWDEM (Demo Edition)

### NEWSEC (Security Edition)

### NEWACC (Security and Access Control Edition)

- Now supports TCP/IP connections through the IP100
- Program access codes and settings of all users in a EVO48 or EVO192 system
- Live system monitoring (view system and zone status and troubles) without interrupting central station communication or system operation
- Draw and download/upload up to 32 floor plans for Grafica (see page 19)
- Download images and tunes into Grafica (see page 19) for special events
- Arm/disarm, bypass zones, and control PGMs
- Search, sort and filter saved system events
- Generate and print customized reports
- Download floor plans, tunes, graphics, and screen savers into Grafica
- On-site (local) uploading and downloading at 38.4k baud (EVO) using a 307USB Direct Connect Interface (60m/200ft) or a CV4USB Converter (300m/1000ft)
- Supports several languages simultaneously

## Keypad and Display Modules

### Features Common to All Digiplex Keypads

- Zone alarm display: the zones in alarm are shown until the system is disarmed
- Connects to 4-wire combus
- Assign to one or more partitions
- 1 addressable zone
- 1 PGM output\*
- Independently set chime zones
- 14 one-touch action buttons\*
- 3 keypad-activated panic alarms

\*Except K07



### K07 | Grafica Graphic LCD Keypad

- Compatible with Imperial and Digiplex EVO
- Firmware upgradeable via Multibus using RS-485 at 57.6Kbps
- Display the status of all partitions and all zones
- 1 built-in indoor temperature sensor
- 1 zone/temperature input. Connect a detection device or TEMP07
- Simple text-driven menus with step-by-step guidance
- Alarm clock and special reminders
- Up to 15 tunes for use with door chiming, entry delay, exit delay and more
- Supports up to 8 built-in user-selectable languages in three language sets
- Adjustable backlight, contrast and volume
- Available in two designer colors (silver or champagne)
- Dimensions (with door closed): 11.5cm x 17cm x 3cm (4.5in x 6.8in x 1.3in)
- 6.5cm x 6.5cm (2.6in x 2.6in) graphic LCD with a resolution of 128 x 128 pixels
- See Features Common to All Digiplex Keypads on page 19



### K641 | 32 Character Blue LCD Keypad

- Compatible with Digiplex EVO
- In-field firmware upgradeable via a CV4USB and WinLoad
- Simplified end-user remote control programming
- 32-character blue LCD with programmable labels (via Memory Key, Winload, NEware or Module Broadcast feature)
- Available in Croatian, Czech, English, French, German, Greek, Hebrew, Hungarian, Italian, Polish, Portuguese, Russian, Spanish, Swedish, and Turkish
- Adjustable backlight, contrast, and scroll speed
- Display time using the 12Hr or 24Hr format
- See Features Common to All Digiplex Keypads on page 19

# DIGI PLEX EVO



## K641R | 32 Character Blue LCD Keypad with Integrated Card Reader

Same features as the K641 plus:

- Built-in card reader. Just present access cards directly to the keypad
- Grant access via card and/or access code
- Arm and disarm with a card
- Door contact and request for exit inputs
- Door lock output
- Programmable automatic unlocking schedule
- Door Left Open and Door Forced Open alarms



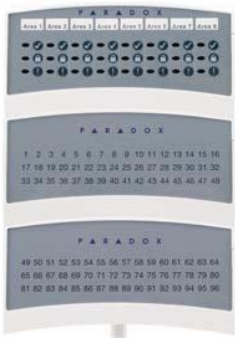
## K648 | 48 Zone LED Keypad

- 48-zone LED display (each LED can be set to display any zone number from 1 to 96)
- 4-partition LED display (each LED can be set to display any partition from 1 to 8)
- See Features Common to All Digiplex Keypads on page 19



## ANC1 | Annunciator Module

- Zone alarm display: the zones in alarm will flash until they are disarmed
- LED display shows the status of either partitions 1-8, zones 1-48, or zones 49-96
- 3-in-1 product (comes with three different display labels)
- Mount as a stand-alone unit or over any LCD or LED keypad
- Stack up to three annunciators
- Assign to one or more partitions



## Motion Detector Modules

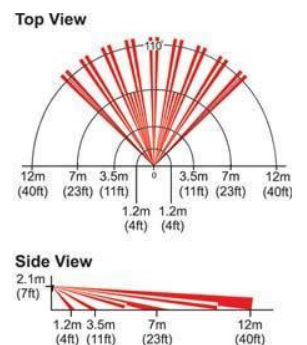


### Features Common to All Digiplex Motion Detector Modules

- Patented Digital Motion Detection (no analog circuitry)\*
- Patented Auto Pulse Signal Processing
- Digital Shield algorithm software
- Automatic temperature compensation
- Single or dual edge processing
- Connect to the Digiplex EVO 4 wire bus directly
- Metal shield maximizes protection from EMI and RFI signals\*  
\*except DG467

### DM50 | Dual Element Motion Detector Module DM60 | Quad Element Motion Detector Module

- 12m x 12m (40ft x 40ft) range with 110° viewing angle
- Digital Dual Opposed Detection (DM60 only)
- Interlock Sensor Geometry (ISG) (DM60 only)
- See Features Common to All Digiplex Motion Detector Modules on page 20



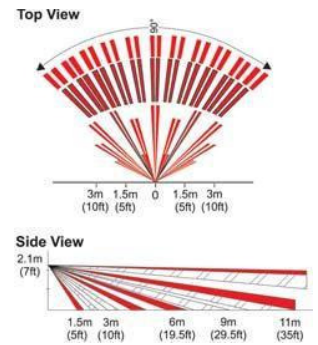
# DIGI PLEX EVO



## DM70 | Digital Dual-Optic High-Performance PIR Module (40kg/90lb Pet Immunity)

Same features as the DM50, plus:

- Dual optics (2 dual opposed element sensors)
- Provides superior pet immunity using a patented combination of advanced optics and digital processing technologies
- Immune to pets weighing up to 40kg (90lb)
- Extremely reliable and false-alarm free
- 11m x 11m (35ft x 35ft) range with 90° viewing angle
- See Features Common to All Digiplex Motion Detector Modules on page 20



## DG85 | Outdoor Digital Dual-Optic High-Performance PIR Module

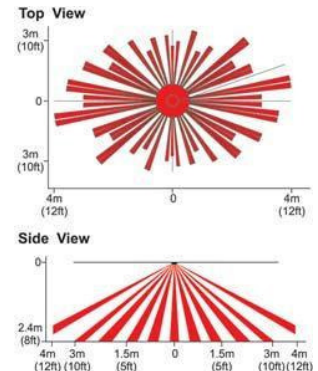
Same features as the DG75 (page 50) plus a special weatherproof design:

- The DG85 series is available with one of three lenses (see page 53 for more details): Pet Array, Horizontal Curtain Beam or Vertical Curtain Beam.
- Impact and temperature resistant casing
- Operates at  $-35^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  ( $-31^{\circ}\text{F}$  to  $+122^{\circ}\text{F}$ )
- Casing lined with an injected rubber gasket
- UV protected lens
- Dual Optical Filtering System
- Multi-level sensitivity adjustment
- Two operational modes (addressable for EVO or conventional relay operation)
- Can be used with the Heavy Duty Outdoor Swivel Bracket (SB85).
- See Features Common to All Digiplex Motion Detector Modules on page 20



## DG467 | 360° Digital Ceiling Mounted Motion Detector Module

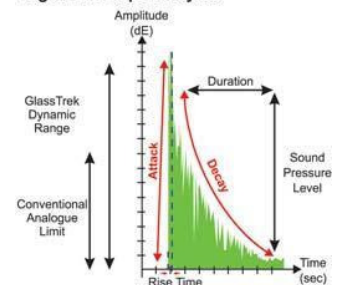
- Digital Motion Detection
- Dual element sensor
- 7m x 6m (24ft x 20ft) at 2.4m (8ft)
- 11m x 6m (35ft x 20ft) at 3.7m (12ft)
- 360° viewing angle
- Solid-state relay
- Anti-tamper switch
- Two operational modes (addressable for the EVO series or conventional relay operation)
- See Features Common to All Digiplex Motion Detector Modules on page 20



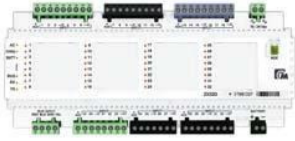
## DG457 | Digital Glassbreak Bus Detector

- Two operational modes (addressable for the EVO series or conventional relay operation)
- Remote test mode when used with TestTrek V2
- Full audio and infrasonic spectrum analysis
- 7 frequency digital filters, digital amplifier gain and frequency fluctuation assessment
- Impact and shock wave analysis
- High-immunity to RFI and EMI signals
- Adjustable sensitivity: covers up to 9m (30ft) when set to high and up to 4.5m (15ft) when set to low
- TestTrek (459 V2.0) used for testing available separately (see page 52)
- Anti-tamper switch

### Signal Envelope Analysis



## Hardwired Zone Expansion Modules



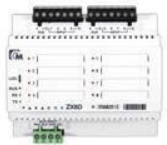
### ZX32D | 32 Zone Expansion Module with 2.85A Power Supply

- See full description on page 7



### ZX16D | 16 Zone Expansion Module

- See full description on page 8



### ZX8D | 8 Zone Expansion Module

- See full description on page 8



### ZC1 | Door Contact Module

- 1 addressable zone
- Small size: 7.4cm x 2.0cm x 3.5cm (2.9in x 0.8in x 1.2in)



### ZX1 | 1 Zone Expansion Module

- 1 addressable zone (2 with ATZ zone doubling feature)
- Set a different input speed for each zone (up to 255 minutes), which is ideal for temperature monitoring applications



### ZX4 | 4 Zone Expansion Module

- 4 addressable zones (8 with ATZ zone doubling feature)
- Set a different input speed for each zone (up to 255 minutes); ideal for temperature monitoring applications
- Use zone input as an anti-tamper switch input



### ZX8 | 8 Zone Expansion Module

- Compatible with Spectra SP series, E55/65, MG5000, MG5050 and Digiplex/EVO
- 8 addressable zones (16 with ATZ zone doubling feature)
- Set a different input speed for each zone (up to 255 minutes), which is ideal for temperature monitoring applications
- 1 PGM output
- Use zone input as an anti-tamper switch input

## Wireless Expansion Module



### RTX3 | Wireless Expansion Module

- See full description on page 8

## Listen-In Modules



### LSN4 | Listen-In Module

- Audio alarm verification (listen-in or two-way communication)
- “Before and after” alarm audio recording and playback
- Message broadcasting (play system status messages through substations)
- Customize or record broadcasted messages
- Remote telephone access (listen-in/two-way, arm/disarm and system status)
- Communicate or listen to a specific substation
- Toggle between high and low gain on speakers and microphones
- Remotely activate or deactivate the siren
- In-field firmware upgradeable via 307USB and WinLoad
- Connect to a music source to play background music through substations
- Supports 4 primary SUB1 substations (fully functional)
- Supports 8 secondary SUB1 substations (used as additional speakers)



### SUB1 | Listen-In Substation

- Unique substation design
- 16 bit sound quality (built-in 7.6cm (3.0in), 3W 8Ω speaker)
- Built-in high-sensitivity microphone
- Page button (communicate with monitoring station and/or other substations)
- Panic button (send panic signal to monitoring station)
- Mute button (mute broadcasted messages and background music)
- Volume control knob
- Simple CAT-5 cable connection to a LSN4 Listen-In Module

## Access Control Modules



### ACM12 | 4 Wire Access Control Module

- Grant access via card and/or panel access code with the R915
- Arm with card and pin with the R915
- Connections for 1 door (card reader, REX, door contact and lock output)
- Connect only 4 wires between the reader and ACM12 module when using a R910 or a R915 reader
- In-field firmware upgradeable via CV4USB and WinLoad
- Automatic unlocking schedule
- Door Left Open and Door Forced Open options
- Door unlock and extended delay timers
- Unlock door manually with button or PGM event
- Unlock Door On Fire Alarm option
- Safe Mode option (during a communication loss, the access control door connected to the module can grant access to up to 4 specified cards or any valid cards)
- Built-in supervised 1.5A switching power supply
- Push button to activate or deactivate the Auxiliary output
- Supports 4 wire and 26 bit Wiegand card readers
- Fits in a 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) metal box



### R910 | 4 Wire Epoxy-Sealed Indoor/Outdoor Proximity Reader

- See full description on page 6



### R915 | 4 Wire Sealed Indoor/Outdoor Proximity Reader and Keypad

- See full description on page 6

# DIGI PLEX EVO



## R870-A | Indoor Proximity Reader

- Indoor installation only
- Covers single gang box
- Screw terminals
- Two status LEDs (red and green) and beeper
- Supports the 26 bit Wiegand output format



## R890-BL | Indoor/Outdoor Extended Range Proximity Reader

- Extreme weather-resistant design (epoxy sealed)
- Up to 61cm (24in) read range with C702 access card
- Automatic read-range calibration
- Supports the 26 bit Wiegand output format
- Tricolor LED display
- Elegant face light



## Proximity Cards

- **C702:** Clam Shell Card
- **C706:** 2 Sided High-Gloss ISO Card
- **C704/S:** Blue Proximity Key Tag
- **RAC1:** Magellan Remote Control with Integrated Access Card
- **RAC2:** Magellan Two-Way Remote Control with Integrated Access Card

## Power and Hub Modules



## PS27D | 4-Output 2.85A Power Supply Module

- See full description on page 7



## PS100D

- See full description on page 7

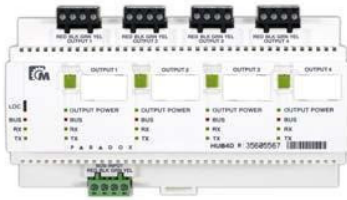


## PS17 | Power Supply Module

- 1.7A switching power supply
- Fully supervised (AC, battery, low battery and auxiliary limit)
- Selectable battery charge current (350mA/850mA)
- 1 PGM output
- Includes 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) metal box



# DIGI PLEX EVO



## HUB4D | 4 Port Hub and Bus Isolator Module

- Divides the bus into four completely isolated outputs (if one output fails, the others will continue to function)
- One input port, 4 completely isolated output ports
- Each output port provides communications up to 900m (3000ft)
- Opto-isolated ports provide protection from high-voltage spikes (ideal for exterior lines)
- In-field firmware upgradeable
- DIN rail enclosure with removable terminals
- Supports 35mm DIN Rail mounting or wall mounting with retractable mounting clips
- On-board buttons to manually activate or deactivate each hub output
- 4 LED status display per hub output
- 3 LED module status display
- Includes labels to identify each output



## HUB2 | 2 Port Hub and Bus Isolator

- Divide the communication bus into multiple completely isolated outputs (if one output fails, the others will continue to function)
- One input port, 2 completely isolated output ports
- Each output port provides communications up to 900m (3000ft)
- Compatible with E55/65, MG5000, MG5050, Spectra SP Series and Digiplex EVO

## Special Modules



## PGM4 | 4 PGM Expansion Module

- Current version is compatible with E55/E65 (V2.00), Digiplex EVO, V3.0 will also be compatible with MG5000, MG5050 and Spectra SP
- In-field firmware upgradeable via a CV4USB or 307USB and WinLoad (PGM4 V3.0)
- 4 programmable 5A relay outputs
- Deactivate PGM after event or timer
- Pulse PGM output for fire alarms
- Will replace currently available PGM4



## PRT3 | Integration Module

- In-field firmware upgradeable via CV4USB and WinLoad
- Supports ASCII / C-BUS protocols
- 16 virtual inputs to trigger an action in the EVO control panel based on an event received from the peripheral system using ASCII or C-BUS protocol
- 30 virtual PGMs to trigger an action in the peripheral system using ASCII or C-BUS protocol based on an event received from the EVO control panel
- USB port for PC connections
- Provides an interface between an EVO control panel and a third party peripheral system
- Automatically/manually print reports of zones/systems event via printer and/or PC
- Parallel and serial port for printer connections
- Assign to one or more partitions
- 2048 event buffer
- Available in multiple languages

## System Accessories



### DB608D | DIN Metal Box

- See full description on page 12

Q1 2009



### PMC5 | Hand-Held Plug-in USB Memory Key

- Includes USB connector to download or upload system programming to or from a PC with WinLoad
- Lock switch to prevent accidental loss of data
- LED status indication
- Download or upload control panel/console programming within seconds
- Connect directly to memory connector on the control panel/console
- No need for a telephone line, PC or any other peripheral device



### 307USB | Direct Connect Interface

- Includes 3 LED status indicators (PC, Panel and RX/TX)
- Incorporates a USB port and a serial port (DB-9)
- Enables control panel to communicate with a PC at 60m (200ft)
- Connect between panel's serial port connector to a PC's serial (DB-9) or USB port
- 57.6k baud communication (Magellan console), 38.4k baud communication (EVO) or 9.6k baud communication (E55/65, MG5000, MG5050 and Spectra SP)



### CV4USB | RS-485/RS-232 Converter Kit

- Incorporates a USB port and a serial port (DB-9)
- Enables control panel to communicate with a PC at 300m (1000ft)
- Connect from the control panel's serial port connector to PC's serial port (DB-9) or USB port
- 38.4k or 57.6k baud communication (EVO)



### UIP256 | Universal In-Field Programmer

- Upgrade Magellan console and Grafica (V1.21 to 1.4) firmware locally in the field
- Includes proprietary PC software, cables to interconnect a Magellan console or a Grafica keypad and a PC, and two 9V batteries
- The supplied PC software retrieves the latest Magellan or Grafica update file (firmware) from our website and then updates the Magellan console or the Grafica keypad



### TEMP07 | Temperature Sensor

- Connects to the Grafica's zone/temperature input to measure the external temperature
- Maximum distance from the Grafica: 30.5m (100ft)