

HIGH-SECURITY AND ACCESS SYSTEM

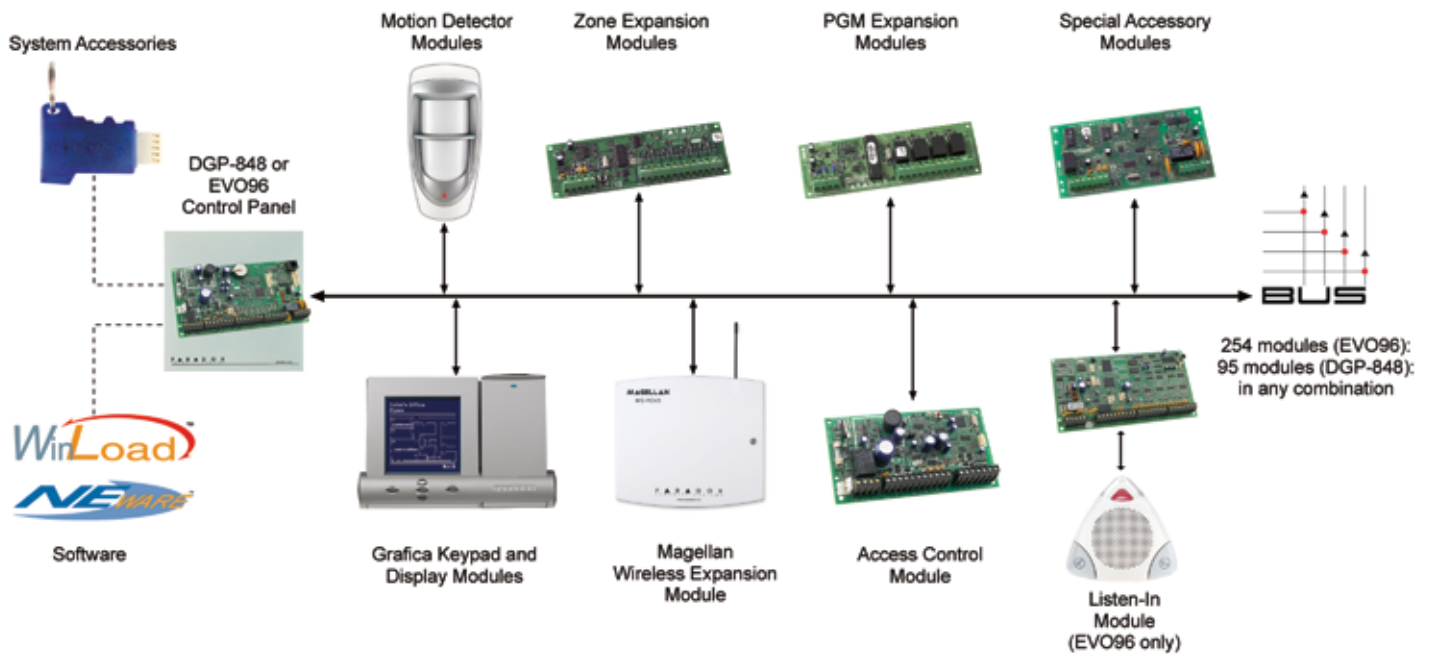
Digiplex systems are designed to provide the highest level of protection for banks, high-security military and government sites, luxurious residential homes and any place where maximum security is essential. These systems are also designed to be easy to use, easy to install, expandable and cost efficient.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

DIGIPLEX
EVO



48- & 96-Zone High Security & Access Systems

System Overview



Feature	DGP-848	EVO96
Zones *	48 (16** on board)	96 (16** on board)
Partitions	4	8
User Codes	96	999
Access Control	32 doors	32 doors
Events Buffered	1024	2048
PGMs	125 (2 on board)	250 (3 on board)
Virtual Zones †	8	32
Expansion Modules *	95	254
Access Levels	16	16
Schedules	16 (with 2 intervals)	32 (with 2 intervals)
Holiday Schedule	1 year	1 year
Software	installer	installer and end-user
Arm/disarm & Control PGMs	via phone and remote control	via phone and remote control
Listen-In Capabilities	-	✓
In-Field Upgradeable	-	✓

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

** With zone doubling (ATZ)

† Automate PGM activations without occupying security zones



DGP-848

Digiplex 48-Zone Control Panel

- 8 on-board zone inputs (16 with zone doubling) expandable to 48 zones via 4-wire combus
- 2 on-board PGM outputs (+1 optional bell relay and +2 optional PGMs)
- PGM1 can be used as a 2-wire smoke input
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Mounted in 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal box

Specifications: connect modules up to 900m (3000ft) with 18AWG or 300m (1000ft) with 22AWG; 1.7A switching power supply (requires 16.5Vac/40VA transformer and 12Vdc/7Ah backup battery); 700mA auxiliary output (fuseless shutdown at 1.1A); 1A bell output (fuseless shutdown at 3A); one 100mA and one 50mA PGM transistor output (+2 optional); one optional PGM form C relay output rated at 5A/28Vdc, N.O./N.C.

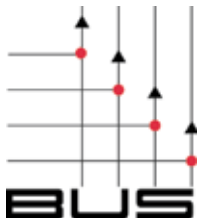


EVO96

Digiplex EVO 96-Zone Control Panel

- 8 on-board zone inputs (16 with zone doubling) expandable to 96 zones via 4-wire combus
- In-field upgradeable: Update firmware by connecting it to a PC via a 306USB and then using the WinLoad Installer Upload/Download Software
- Automatic Daylight Savings Time feature
- 3 on-board PGM outputs
- PGM1 can be used as a 2-wire smoke input
- 1.7A switching power supply
- 1 supervised bell output and 1 supervised auxiliary output
- 1 supervised telephone line
- Push button power reset
- Auxiliary output push button: Activate or deactivate the Auxiliary output with the push of a button
- Built-in real-time clock backup battery (no DGP2-TM1 required)
- Adjustable communication speed (normal/fast) for large installations
- Mounted in a 28cm x 28cm x 7.6cm (11in x 11in x 3in) metal box

Specifications: connect modules up to 900m (3000ft) using 18AWG or 300m (1000ft) using 22AWG; 1.7A switching power supply (requires 16.5Vac/40VA transformer and 12Vdc/7Ah backup battery); 700mA auxiliary output (fuseless shutdown at 1.1A); 1A bell output (fuseless shutdown at 3A); one 100mA PGM transistor output; two PGM form C relay outputs rated at 5A/28Vdc, N.O./N.C.



Overview of System Modules

- Connect up to 254 (EVO96) or 95 (DGP-848) addressable modules in any combination on the 4-wire combus in a star or daisy chain configuration
- All modules provide sabotage protection without requiring additional modules or EOL resistors
- Program any module through the combus using a keypad, the WinLoad software or the Module Broadcast feature
- Modules with an APR3- prefix as part of their model number feature Auto-Panel Recognition, enabling them to function with the Digiplex series or Spectra
- Input Voltage: 12 to 16Vdc
- Operating Temperature: -20°C to +50°C (-4°F to +122°F) except DG85W, DGP2-PS17, DGP2-DVAC, and readers

Keypad and Display Modules



DNE-K07

Grafica Graphic LCD Keypad Module

- View zones on up to 32 floor plans
- 1 built-in indoor temperature sensor that allows Grafica to display the temperature of the room where Grafica is located
- 1 zone/temperature input. The input can be used to connect a detection device or external temperature sensor (DNE-TEMP)
- Simple text- and icon-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 languages in three Language Sets (user selectable):
 - LS1: English, Spanish, Czech, French, Hungarian, Italian, Portuguese and Slovak
 - LS2: English, Bulgarian, Czech, Polish, Romanian, Russian, Swedish and Greek
 - LS3: English, Dutch, Croatian and French
- Smart search functions
- Copy and paste user programming
- Assign to one or more partitions
- Independently set chime zones
- 3 one-touch panic alarms
- Adjustable backlight, contrast and volume
- Upload/download labels with Memory Key or with the Module Broadcast feature
- 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)

Specifications: 130mA maximum current consumption; anti-tamper switch (optional); 6.5cm x 6.5cm (2.6in x 2.6in) graphic LCD with a resolution of 128 x 128 pixels



DNE-TEMP

Temperature Sensor

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



DGP2-641BL

32-Character Blue LCD Keypad Module

- 32-character blue LCD with programmable labels (via memory key or module broadcast feature)
- Available in English, Spanish, Czech, French, German, Italian, Polish, Portuguese, Swedish or Turkish. Hebrew, Russian, Hungarian and Greek will be available soon.
- Assign to one or more partitions
- 1 addressable zone and 1 PGM output
- Independently set chime zones
- 14 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight, contrast and scroll speed

Specifications: 80mA maximum current consumption; one 50mA PGM transistor output; anti-tamper switch



DGP2-641RB

32-Character Blue LCD Keypad Module with Integrated Card Reader

Same features as DGP2-641BL plus the following:

- Built-in card reader. Just present access card directly to the keypad module
- Grant access via card and/or access code
- Door contact and Request for Exit (REX) inputs
- Door lock output
- Programmable automatic unlocking schedule
- Door Left Open and Door Forced Open alarms
- Display time using the 12Hr or 24Hr format

Specifications: 100mA maximum current consumption; one 50mA PGM transistor output; anti-tamper switch (optional)



DGP2-640

Icon LCD Keypad Module

- Icons to display status of zones 1 to 16. Zones 17 to 96 displayed through a scrolling LCD.
- Icons to display Regular, Force, Stay and Instant arming (displays only 4 partitions)
- Icons to display troubles, fire, tamper, bypassed zones and alarm memory
- Assign to one or more partitions
- Display time using 12Hr or 24Hr format
- 1 addressable zone input and 1 PGM output
- Independently set chimes
- 14 one-touch action buttons
- 3 keypad-activated panic alarms
- Adjustable backlight and contrast

Specifications: 80mA maximum current consumption; one 50mA PGM transistor output; anti-tamper switch

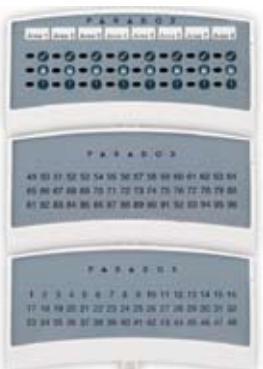


DGP2-648BL

Blue 48-Zone LED Keypad Module

- 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)
- Available in English, Spanish or French
- Assign to one or more partitions
- 1 addressable zone and 1 PGM output
- Independently set chime zones
- 14 one-touch action buttons
- 3 keypad-activated panic alarms

Specifications: 115mA maximum current consumption; one 50mA PGM transistor output; anti-tamper switch



DGP2-ANC1B

Annunciator Module

- 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 module
- Stack up to 3 annunciators
- Assign to one or more partitions

Specifications: 105mA maximum current consumption

Motion Detector Modules



PARADOX
DIGITAL
DETECTION

DGP2-50: Dual Element Motion Detector Module

DGP2-60: Quad Element Motion Detector Module

- Patented Digital Motion Detection (no analog circuitry)
- Patented Digital Auto Pulse Signal Processing
- Digital Shield algorithm software
- Metal shield maximizes protection from EMI and RFI signals
- 12m X 12m (40ft X 40ft) range; 110° viewing angle
- Digital Dual Opposed Detection (DGP2-60 only)
- Interlock Sensor Geometry (DGP2-60 only)

Specifications: 30mA maximum current consumption; dual (DGP2-50)/quad (DGP2-60) element sensor; anti-tamper switch; 10V/m rejection from 10MHz to 1GHz; 0.2m to 3.5m/sec. (0.6ft to 11.5ft/sec.) walk speed; 2m to 2.7m (7ft to 9ft) installation height



PET
IMMUNITY
PARADOX
DIGITAL
DETECTION

DGP2-70

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

- 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
- Patented Digital Motion Detection (no analog circuitry)
- Patented Digital Auto Pulse Signal Processing
- Digital Shield algorithm software
- Metal shield maximizes protection from EMI and RFI signals
- 11m X 11m (35ft X 35ft) range; 90° viewing angle

Specifications: 30mA maximum current consumption; anti-tamper switch; 30-60V/m rejection from 10MHz to 1GHz; 0.2m to 3.5m/sec. (0.6ft to 11.5ft/sec.) walk speed; 2m to 2.7m (7ft to 9ft) installation height



PARADOX
DIGITAL
DETECTION
PET
IMMUNITY

DG85W

Outdoor Digital Dual-Optic High-Performance PIR Module (40kg/90lb True Pet Immunity)

Same features as DGP2-70 plus a special weatherproof design:

- Impact and temperature resistant casing
- Casing lined with an injected rubber gasket
- Dual Optical Filtering System and a UV protected lens
- Multi-level sensitivity adjustment
- 2 operational modes (addressable for Digiplex series or conventional relay operation)
- 11m X 11m (35ft X 35ft) range; 90° viewing angle

Specifications: 30mA maximum current consumption; anti-tamper switch; 10V/m rejection from 10MHz to 1GHz; 0.2m to 3.5m/sec. (0.6ft to 11.5ft/sec.) walk speed; 2m to 2.7m (7ft to 9ft) installation height; operating temperature: -35°C to +50°C (-31°F to +122°F)

Wireless Expansion Module



MG-RCV3

Wireless Expansion Module

- 16 wireless zones and 16 remote controls
- Low battery, tamper and check-in supervision
- Transmitter signal strength display
- 1 PGM output (+ 1 optional output)
- Noise level test and indicator
- Also functions in stand-alone mode (8 remote controls activate on-board PGMs)
- Functions with all Magellan transmitters except for MG-REM2 and MG-2WPGM

Specifications: 50mA maximum current consumption; frequency of 433MHz or 868MHz; -120dBm sensitivity; one PGM form C relay output rated at 5A/28Vdc, N.C./ N.O. (+1 optional); anti-tamper switch

Hardwired Zone Expansion Modules



DGP2-ZC1

Door Contact Module

- 1 addressable zone
- Small size: 74mm x 20mm x 35mm (2.9in x 0.8in x 1.2in)

Specifications: 15mA maximum current consumption; form A reed switch; anti-tamper switch



DGP2-ZX1 1-Zone Expansion Module

APR3-ZX4 4-Zone Expansion Module

APR3-ZX8 8-Zone Expansion Module



- 1, 4 or 8 addressable zones (double zones with ATZ feature)
- Set a different input speed for each zone (up to 255 minutes), which is ideal for temperature monitoring applications
- 1 PGM output (APR3-ZX8)
- Use zone input as an anti-tamper switch input (APR3-ZX4 and APR3-ZX8 only)



Specifications: 28mA maximum current consumption; one 50mA PGM transistor output (APR3-ZX8 only); anti-tamper switch (DGP2-ZX1 only)

Listen-In Modules



DGP-LSN4

Listen-In Module

- Audio Alarm Verification (listen-in or two-way voice communication with monitoring station)
- Alarm Audio Recording and Playback (records sound from the premises up to a total of 120 seconds before and after an alarm, which can be played back)
- Remote Telephone Access (end users can listen-in/talk with anyone on-site, arm/disarm, and check system status)
- Message Broadcasting (broadcast system status messages through all substations)
- Record customized labels to replace the "Area Number," "User Number," or "System" audio labels
- Connect to a music source to play background music through the substations
- Page function to communicate with other substations
- In-Field Firmware Upgradeable
- Connect 1 Listen-In Module per EVO96 Control Panel
- Supports 4 primary substations and 8 secondary (broadcast only) substations

Specifications: 100mA per substation maximum current consumption; connect substations up to 150m (500ft) using CAT-5 four twisted pair 24AWG cables; siren control form C relay rated at 5A/28Vdc, N.O./N.C.; anti-tamper input

DGP-SUB1

Listen-In Substation

- Built-in microphone and speaker (for two-way communication)
- Unique design and high-quality sound
- Page button (to communicate with other substations)
- Mute button (turn background music on/off, and mute certain broadcasted status messages)
- Panic button (sends panic alarm to monitoring station)
- Volume control knob



Specifications: 3", 3 Watt, 8 Ohm speaker; sound quality of 22 KHz, 16 bits or 8 bits through phone line, differential audio through twisted pair cables ensure high noise immunity; microphone sensitivity -42±dB RL=2.2K Ω , Vs=4.5V (1 KHz 0dB=1V/Pa) Max SPL: 115dB

Access Control Modules



DGP-ACM11

4-Wire Access Control Module

- In-field upgradeable: Update the firmware by connecting it to a PC via a 306USB and then using the WinLoad Installer Upload/Download software
- Only 4 wires to connect when used with the DGP-R910 proximity reader
- Auxiliary output push button: Activate or deactivate the Auxiliary output with the push of a button
- Connections for card reader, REX, door contact and lock output
- Automatic unlocking schedule
- Door Left Open and Door Forced Open options
- Door unlock and extended delay timers
- Grant access via card and/or access code (supports CR-R885-BL reader)
- 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 4 specific safe cards or any card)
- Built-in 1.5A switching power supply (supervised only if used)
- Supports RS-485 and 26-bit Wiegand card readers
- Mounted in a 20cm x 25.5cm x 7.6cm (8in x 10in x 3in) metal box

Specifications: 1.5A switching power supply (requires 16Vac, 20/40VA transformer and 12Vdc/4Ah backup battery); one form C relay rated at 5A/28Vdc, N.O./N.C.; one 50mA PGM transistor output; anti-tamper switch



DGP-R910

4-Wire Indoor/Outdoor Proximity Reader

- Only 4 wires to connect when used with a 4-Wire Access Control Module V3.0 or higher (DGP-ACM11)
- In-field upgradeable: Update the firmware by connecting it to a PC via a CONV3USB converter and then using the WinLoad Installer Upload/Download software
- Adjustable red/green LED intensity and buzzer frequency
- Extreme weather-resistant design
- Up to 10cm (4in) read range with CR-R702-A Clam Shell Card
- Supports RS-485 output format
- Tricolor LED display
- Elegant blue face light

Specifications: input voltage 11Vdc to 14.5Vdc; 115mA maximum current consumption; exciter field 125KHz pulse modulated; operating temperature -35°C to +65°C (-31°F to +149°F); cable distance 300m (1000ft); UV resistant, ABS plastic; size 10cm x 12cm x 2cm (5.75in x 2in x 0.8in)



CR-R885-BL: Indoor/Outdoor Proximity Reader and Keypad

- Extreme weather-resistant design
- Up to 10cm (4in) read range with CR-R702-A Clam Shell Card
- Use as a keypad, reader or both
- Embedded 12-button keypad
- Programmable face light, LEDs and buzzer
- Panic alarm output
- User-selectable PIN
- Keypad lockout feature
- 26-bit Wiegand output format

Specifications: input voltage 11Vdc to 14.5Vdc; current consumption 65mA; exciter field 125KHz pulse modulated; operating temperature -25°C to 65°C (-13°F to 149°F); cable distance 152m (500ft); dimensions 14.6cm x 5.0cm x 2.5cm (5.75in x 2.0in x 1.0in)



CR-R870-A

Indoor Proximity Reader

- Indoor installation only
- Covers single gang box
- Screw terminals offer quick and easy installation
- Up to 10cm (4in) read range with CR-R702-A Clam Shell Card
- Two status LEDs (red and green) and beeper
- 26-bit Wiegand output format

Specifications: input voltage 11Vdc to 14.5Vdc; current consumption 39mA; exciter field 125KHz pulse modulated; operating temperature 10°C to 65°C (50°F to 149°F); cable distance 152m (500ft); dimensions 11cm x 7.3cm x 2cm (4.5in x 2.8in x 0.8in)



CR-R890-BL

Indoor/Outdoor Extended Range Proximity Reader

- Extreme weather-resistant design
- Up to 61cm (24in) read range with CR-R702-A Clam Shell Card
- Automatic read-range calibration
- 26-bit Wiegand output format
- Tricolor LED display
- Elegant face light

Specifications: input voltage 11Vdc to 16Vdc; current consumption 600mA; exciter field 125KHz pulse modulated; operating temperature -35°C to 65°C (-31°F to 149°F); cable distance 152m (500ft); dimensions 20.7cm x 20.0cm x 2.0cm (8.1in x 7.9in x 0.8in)



MG-WR1

Magellan Access Receiver with Wiegand Interface

- Unlock doors using a remote control
- Supports 26-bit Wiegand output format
- Supports unlimited number of Remote Controls (MG-REM1/MG-RAC1)
- Each remote control has a programmable family number and up to 5 card numbers
- Panic feature
- Control access to 2 doors with 1 interface
- Ideal for parking and condominium applications

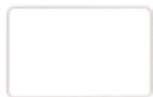
Specifications: 50mA maximum current consumption; frequency of 433MHz or 868MHz; two 50mA PGM transistor outputs; two form C relay outputs rated at 5A/28Vdc, N.O./N.C.; operating temperature -35°C to +65°C (-31°F to +149°F); connect up to 150m (500ft); UV resistant, ABS plastic; size 10cm x 12cm x 2cm (5.75" x 2" x 0.8"); requires Esprit 636 or 646 keypad for programming



CR-R702-A



MG-RAC1



CR-R706-A



CR-R704-B

Proximity Cards

CR-R702-A: Clam Shell Card

CR-R704-B: Blue Proximity Key Tag

CR-R706-A: 2-sided High-Gloss ISO Card

MG-RAC1: Magellan Remote Control with Integrated Access Card

Special Accessory Modules



APR3-ADM2

Voice-Assisted Arm/Disarm Module

- Arm, disarm, control on-board PGMs and verify system status via telephone
- Clear and concise voice prompts
- Available in English, Czech, French, Greek, Italian, Mandarin, Portuguese, Spanish and Turkish
- 1 PGM output

Specifications: 105mA maximum current consumption; one form C relay output rated at 5A/28Vdc, NO./NC.



APR3-PGM4

4-PGM Expansion Module

- 4 fully programmable 5A relay outputs
- Deactivate PGM after event or timer
- Pulse PGM output for fire alarms

Specifications: 150mA maximum current consumption; four form C relays rated at 5A/28Vdc, NO./NC.



APR3-PRT3

Printer Module

- Can be used as an interface between a home automation system and a Digiplex or Digiplex EVO control panel
- Supports ASCII and C-BUS protocols
- 16 virtual inputs
- 30 virtual PGMs
- Automatically/manually print reports of zones/system events via a printer and/or PC
- Parallel and serial port connectors
- Assign to one or more partitions
- 1 PGM output
- Available in English or Spanish

Specifications: 60mA maximum current consumption; one 50mA PGM transistor output



DGP2-PS17

Power Supply Module

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

Specifications: 1.7A switching power supply (requires 16Vac, 20/40VA transformer and 12Vdc/4Ah backup battery); one form C relay output rated at 5A/28Vdc, NO./NC.; anti-tamper switch



DGP2-DVAC

DVACS Module

- Provides contact power, supervision and two-way communication between the control panel and the Subset F1/F2 modem
- On-board RJ-11 jack
- Memory Key connector
- For use in Canadian markets only

Specifications: 40mA maximum current consumption (with Subset F1/F2 modem connected); anti-tamper switch; operates at 0°C to +50°C (+32°F to +122°F)

System Accessories



DGP2-TM1

Real-Time Plug-In Device

- Connects directly on the DGP-848 control panel
- Keeps time and date during a complete power failure
- 8-year battery life expectancy (battery included)
- Not required with EVO96



PMC-4

Hand-Held Plug-In Memory Key

- The memory capacity has been doubled to support Digiplex EVO96 control panel
- Download or upload control panel/console programming in less than 5 seconds
- Connect directly to memory connector on the control panel/console
- No need for a telephone line, PC or any other peripheral device
- Stylish clear blue plastic casing



306USB

Direct Connect Interface

- Now incorporates a USB port and a serial port (DB-9)
- Enables control panel to communicate with a PC at 60m (200ft)
- Connect from control panel's serial port connector to PC's serial (DB-9) or USB port
- 38.4k baud communication (EVO96) or 19.2k baud communication (DGP-848)



CONV3USB

RS-485/RS-232 Converter Kit

- Now incorporates a USB port and a serial port (DB-9)
- Enables control panel to communicate with a PC at 300m (1000ft)
- Connect from control panel's serial port connector to PC's serial port (DB-9) or USB port
- 38.4k baud communication (EVO96) or 19.2k baud communication (DGP-848)
- Also used to upgrade firmware of DGP-R910 4-wire Indoor/Outdoor Proximity Reader



APR3-HUB2

Hub and Bus Isolator

- Used to divide the combus into two completely isolated outputs (one output failure does not affect the other)
- To be added when over 600m (2000ft) of single or multiple combus wires are used
- Each output port can provide communication up to 900m (3000ft)

Specifications: Connect modules up to 900m (3000ft) using 18AWG or 300m (1000ft) using 22AWG; 50mA maximum current consumption



UIP-256

Universal In-Field Programmer

- Upgrade the Grafica Graphic LCD Keypad's (DNE-K07) firmware locally in the field
- Includes proprietary PC software, cables to interconnect a Grafica keypad and a PC, and two 9V batteries
- The supplied PC software retrieves the latest Grafica update file (firmware) from our website and then updates the Grafica keypad
- Supports Grafica version 1.21 or higher

