

September 2020



Access Control Product Catalogue

Innovators in Access Control and Integrated Security Solutions



PAC Access Control

PAC Access Control solutions have been designed to suit the varied demands of the commercial and residential markets.

PAC has over 40 years' experience in designing and manufacturing secure access control products. PAC systems are easy to install & maintain, and are flexible & scalable to suit the customer's changing needs. Working closely in partnership with consultant engineers, architect partners, distributors and installers over this time enables the PAC products to be continually developed to meet the requirements of the access control market and its associated legislation.

The PAC access control range has been designed to provide unbeatable reliability and functionality to meet the rigorous demands of both the residential and commercial market sectors. There are targeted customer options to enable the PAC access control system to be tailored to suit a variety of customer requirements. With a focus on reliability and an ease of installation & maintenance we offer access control solutions that deliver affordable security for the customer.

The PAC range of equipment is supplied through authorised PAC distributors, dealers and installers. This supports quality design, installation and in-life maintenance to ensure a great customer experience. Please contact PAC Customer Services for details of approved suppliers.

Email: customerservices@pacgdx.com

Telephone: +44 (0) 161 406 3400

PAC offers a full range of design support services to our customers and approved installers. We have an experienced sales and support team based throughout the UK who are available to offer no obligation support, help & advice in all aspects of the following:

- Pre-Sales Systems Design
- Tender & Specification Support
- Technical & Site Survey Support

If you wish to discuss your requirements on any matter related to the PAC product range, please contact Customer Services to request contact details for the local support representative.

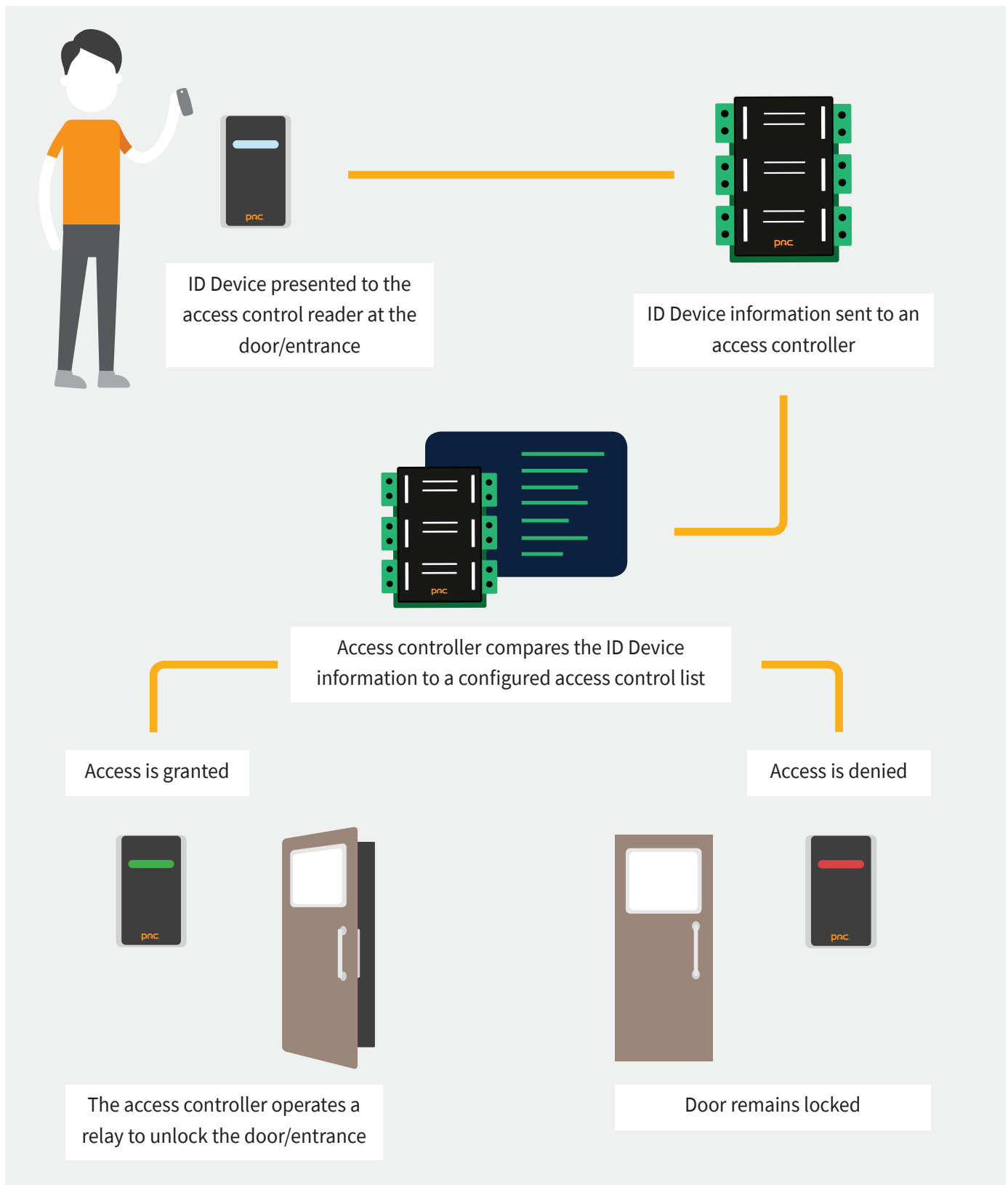


Over 40 years
experience

Contents

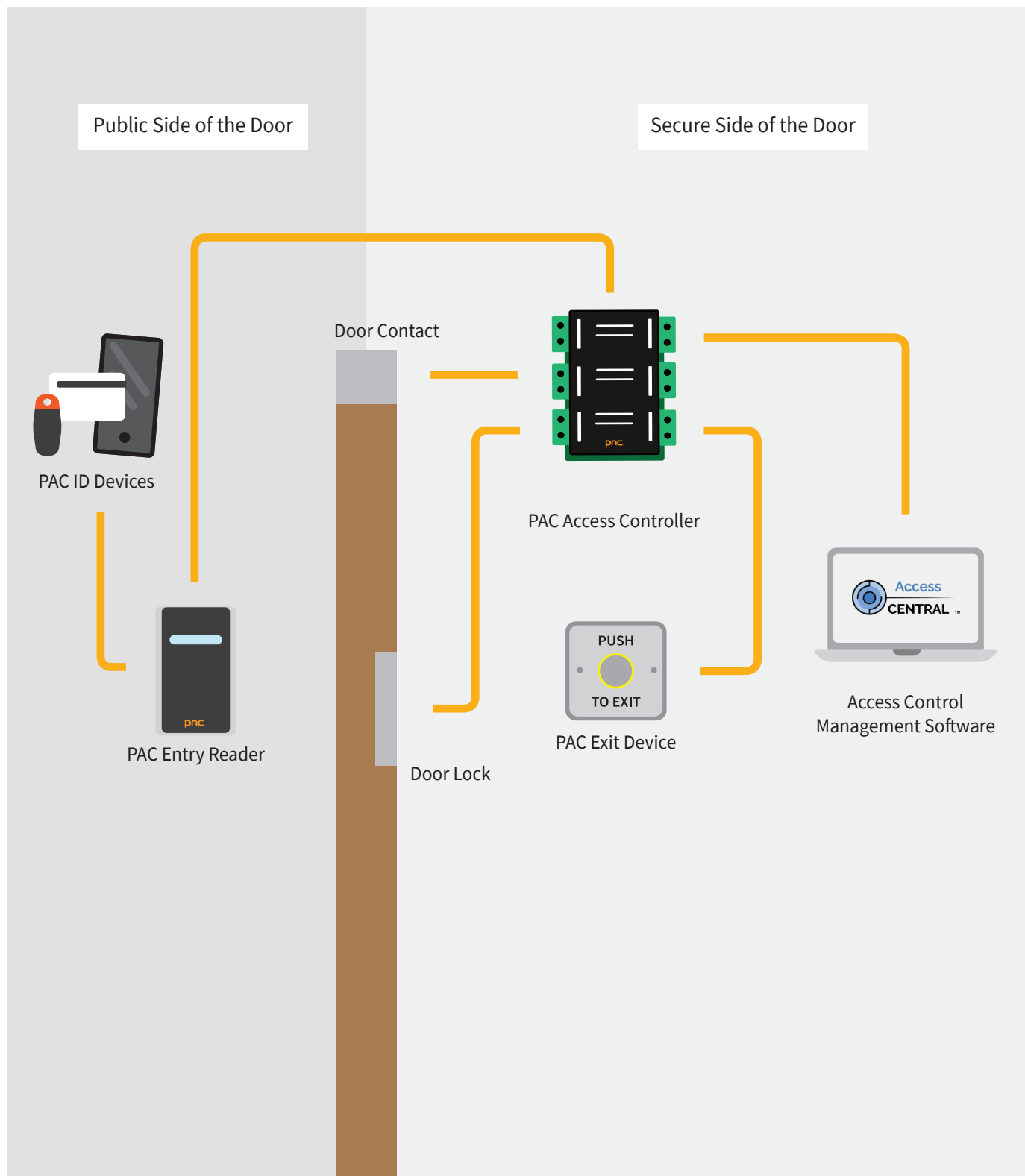
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Proximity Access Control Overview



Proximity access control is managed with security tokens that are configured to permit access to doors secured with access control. The diagram above illustrates the access control process flow at a high level.

PAC Access Control

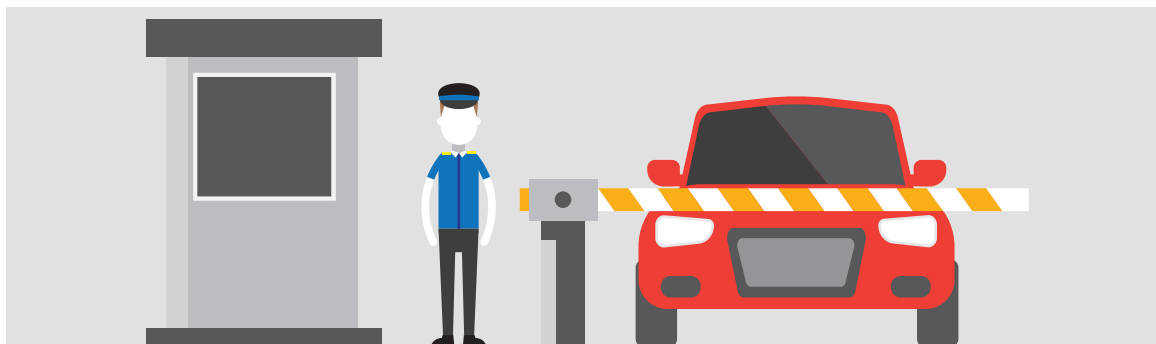


The PAC product range is a well-established suite of products to provide flexible access control solutions for the commercial and residential markets.

The diagram above illustrates the basic components of a PAC access control solution. Please note that detailed descriptions, and further information on the components within the PAC system, will be detailed in later sections.

Definitions of Access Control

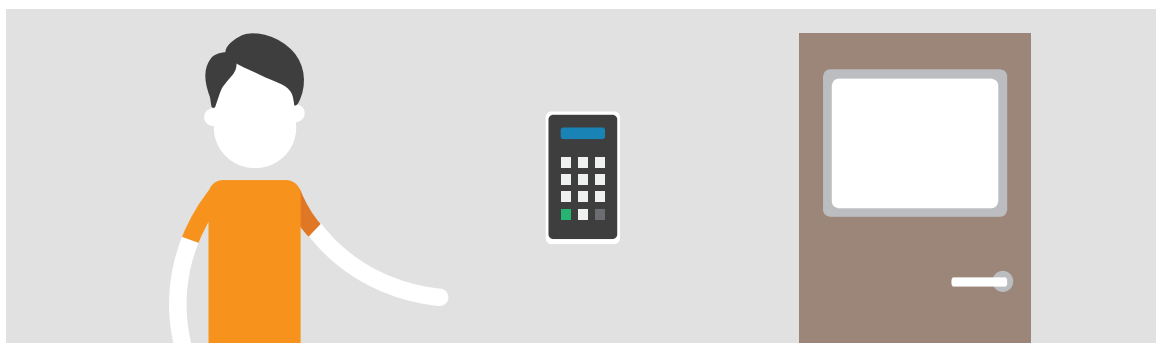
Physical Access Control



This form of access control refers to the practice of restricting entrance to a property, a building, or a room to authorised persons. Simply put, it is the control of who goes where and when.

Physical access control can be achieved in a few ways. Physical access control examples are: a guard or receptionist; a car park barrier; and a door with a mechanical lock.

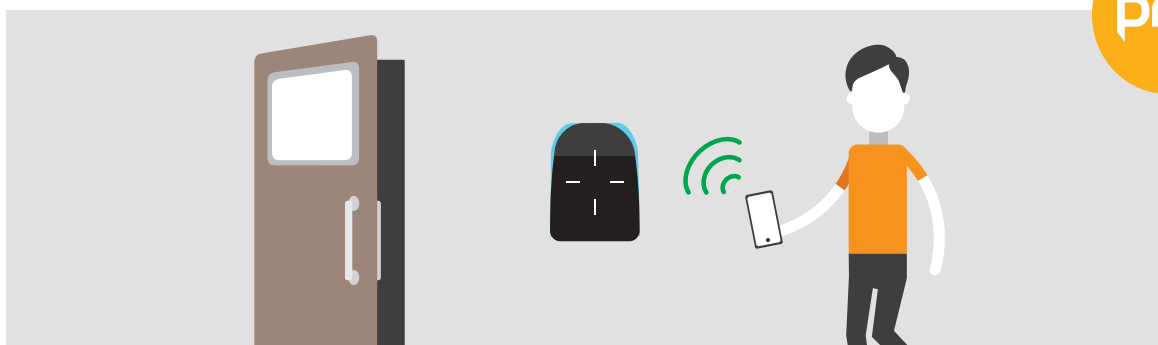
Electronic Access Control



Electronic access control offers a more secure system as it requires the user to gain access through an electronic key or code.

A variety of options exist for electronic access control including a keypad that requires a PIN to be entered or a magnetic stripe card that can be swiped through a reader. When access is granted, the door is unlocked for a predetermined time. When access is refused, the door remains locked.

Proximity Access Control



Proximity Access Control uses encrypted RFID technology to secure the entrance.

An ID device is presented to a reader that passes the keycode of the ID device to the access controller for a decision on whether the ID Device is valid for granting access. PAC provides feature rich proximity access control systems that are scalable from 2 to 2,000 doors. Proximity access control removes the need to physically insert or swipe cards or tokens.

Integrated Security



PAC supports integrated security solutions through the use of PAC products with Access Central software to enhance security for people and property.

As well as providing access control, an integrated system may provide alarm monitoring relating to CCTV and perimeter detection. This would allow the system to control cameras, making them pan or tilt to record movement or activity if an unauthorised person is trying to gain access. Alarm notification is also provided. When an event is recorded, an automatic emergency message can be sent (via telephone, pager or mobile phone) directly to authorised personnel or to a local or remote monitoring centre.

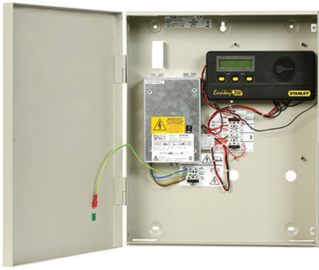


Door Controllers

PAC Controllers offer unbeatable reliability and flexibility. Our extensive range provides a multitude of solutions to suit a variety of applications and environments.

Developed under the rigorous eye of industry experts, PAC Controllers follow strict compliance standards to ensure our equipment works in all possible conditions. From a simple two-door controller to a global network system that connects and controls access in multiple locations, PAC offer solutions to match your specific requirements.

Controller Collection



Easikey 250

10

The EasiKey 250 is a cost effective, easy to use stand-alone access controller.



2 doors



250 ID Devices

Security Level: Medium



PAC 212

12

The 212 Controller is ideal to secure 1 or 2 doors.



2 doors



2,000 ID Devices

Security Level: Medium or High



PAC 512

16

An intelligent 2-door access controller that can be deployed within the PAC access control system



2,000 doors



20,000 ID Devices

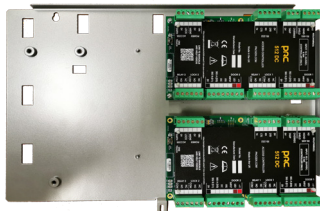
Security Level: Medium or High



Power Supply Units & Enclosures

20

PAC accessories to support installation of PAC access control systems



Upgrade Kits

22

Offering seamless systems using upgrades from the PAC 2100/2200 controllers to PAC 512 controllers.



2 Door Standalone Controller

A cost effective, easy to use controller with in-built access control reader and database for storing ID Device information and events.

Combined with the PAC LF Reader Range, the EasiKey 250 is a cost effective solution suitable for small scale applications such as tenanted buildings and small commercial offices, providing easy to manage access control. Easikey 250 is designed around the user's convenience with up to 3 Master keys, administration of the keyholders is quick and easy. The LCD display provides easy to understand instructions and the built-in LF administration reader makes it easy to add and delete keyholders.

Boxed Easikey 250 Controller

909022275



Pre-wired controller in a metal case without cut-out & 3Amp PSU

- Up to 250 Keyholders or 500 when paired
- Fail safe or fail secure option with lock time settings
- 3 Simple Access levels - Door 1 only, Door 2 only, Door 1 and 2
- Reads both PAC (153Khz) and KeyPAC (125Khz) ID's
- 3Amp 12V PSU

Boxed Easikey 250 Controller

909022277



Pre-wired controller in metal case with a cut-out & 3Amp PSU)

- Up to 250 Keyholders or 500 when paired
- Fail Safe or Fail secure option with lock time settings
- 3 Simple Access levels - Door 1 only, Door 2 only, Door 1 and 2
- Reads both PAC (153Khz) and KeyPAC (125Khz) ID's
- 3Amp 12V PSU

Unboxed Easikey 250 Controller

909022370



Out of the box Standalone Access Controller

- Up to 250 Keyholders or 500 when paired
- Fail Safe or Fail secure option with lock time settings
- 3 Simple Access levels - Door 1 only, Door 2 only, Door 1 and 2
- Reads both PAC (153Khz) and KeyPAC (125Khz) ID's

Easikey Power Supply - 3 Amp

906011240



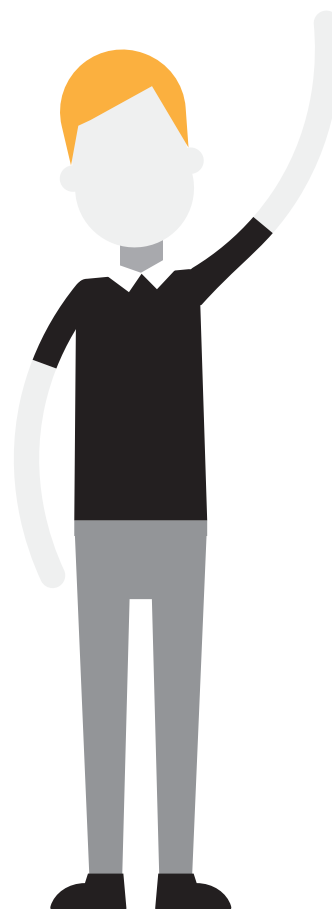
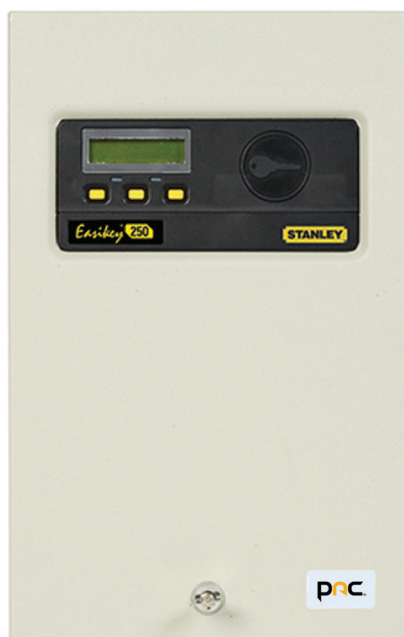
Easikey 250 Power Supply 3Amp

- Flying lead connections
- Input 180 – 264v
- Output 13.8v

Did You Know...

It is possible to increase the number of keyholders by connecting a reader to the same door channel on two Easikey 250 Controllers?

If a key is found in either of the Easikey 250 Controllers, then the door relay will be released. See our User and Installation guide for more information.





PAC 212 LF or HF Standalone or PC Based Access Controller

The PAC 212 Access Controller is a fully integrated access controller and reader.

It is feature rich and offers enhanced security when deployed in the High Frequency version that supports the non-cloneable PAC Ops ID Devices (Tokens or cards). The PAC 212 requires no additional hardware or software during installation or operation as it can be programmed and managed via its onboard keypad.

Low Frequency Controllers

The LF version of the PAC 212 is capable of reading all PAC LF ID Devices.

Un-Boxed PAC 212 LF Controller

909033079



PCB only. Ideal for installing in OEM panels/equipment

- In-built LF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

Un-Boxed PAC 212 LF Controller

909033075

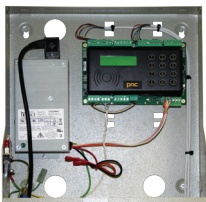


PCB with DIN mount fixing. Ideal for installing in our 4 way or 6 way cabinets (p/n 10031 and 10032)

- In-built LF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

Boxed PAC 212 LF Controller

909033074



Pre-wired with 3Amp PSU in metal case with tamper switch and circuit

- In-built LF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

Boxed with cut-out PAC 212 LF Controller

909033076



Pre-wired with 3Amp PSU in metal case with tamper switch and circuit and cut-out for ease of programming

- In-built LF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

High Frequency Controllers

The HF version of the PAC 212 is capable of reading PAC Ops™ ID Devices for sites requiring a higher level of security against ID device cloning.

Un-Boxed PAC 212 HF Controller

909034079



PCB only. Ideal for installing in OEM panels/equipment

- In-built HF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

Un-Boxed PAC 212 HF Controller

909034075

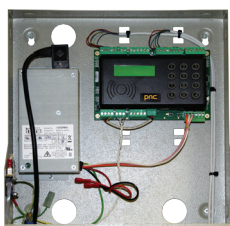


PCB with DIN mount fixing, designed for installing in our 4 way or 6 way cabinets (p/n 10031 and 10032)

- In-built HF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

Boxed PAC 212 HF Controller

909034074



Pre-wired with 3Amp PSU in metal case with tamper switch and circuit

- In-built HF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

Boxed with cut-out PAC 212 HF Controller

909034076



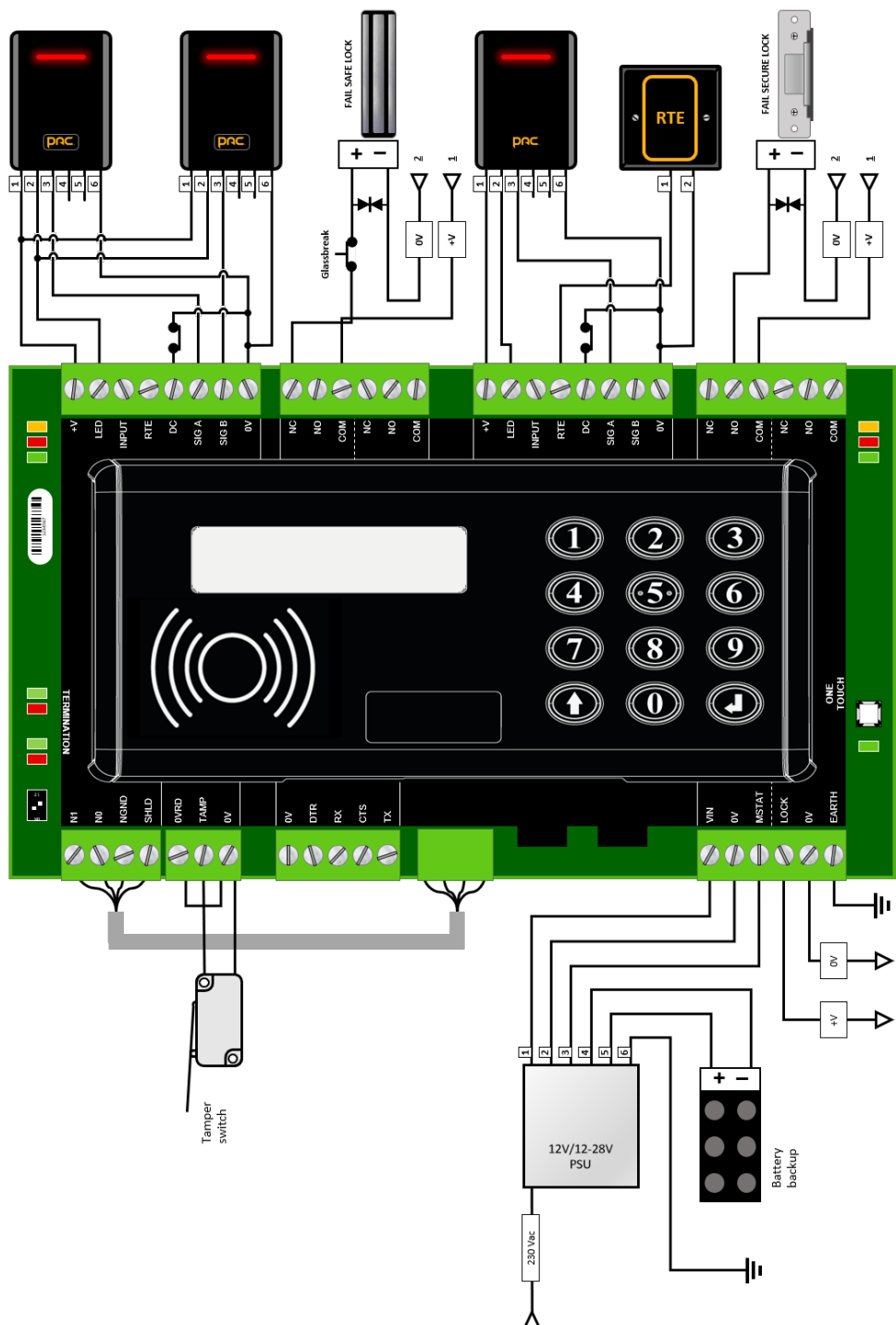
Pre-wired with 3Amp PSU in metal case with tamper switch and circuit and cut-out for ease of programming

- In-built HF proximity reader
- Configurable for Residential or Commercial Applications
- Up to 2,000 Keyholders
- 2 Readers per channel when using PAC or PAC64bit output readers
- Database and Events are exportable on USB drive (included) and viewable on any device with a Windows operating system.

PAC 212 Summary

PAC 212 Controller Board Layout

The diagram below shows all the connection points for the PAC 212 Controller.



Did You Know...

The PAC 212 comes with free Database Manager software?

The Database Manager software is included on a USB stick with the controller. This can be used to back up the database and events as well as managing a group of up to eight controllers.





PAC 512 DC and PAC 512 DCi Controllers

PAC 512 Controllers are designed to provide a flexible configuration to help secure and monitor a customer's premises.

The PAC 512 DC and DCi are intelligent 2-door access controllers designed for reliable and robust secure access control deployments. It relies on management software for integrated security features but has in-built databases and processing ability to execute local proximity access control and features associated with door management. They are networked access controllers that can scale to a 2,000 door system.

PAC 512 DCi Controllers

Unboxed PAC 512 DCi Access Controller

909030155



Complete with DIN Mount for fitting in to PAC's DIN Mount cases (p/n 10031 and 10032)

- Manages Access through Two Doors
 - Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder
- 3Amp Thermal Fuse protection to Lock Relays
- Local Anti-passback
- Built in TCP/IP for communication to PAC Access Central or EasiNet Residential software and RS485 for slave PAC 512 Controllers

Boxed PAC 512 DCi Access Controller

909030154



Complete with metal case, lock, tamper switch and 3Amp PSU

- Manages Access through Two Doors
 - Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder
- 3Amp Thermal Fuse protection to Lock Relays
- Local Anti-passback
- Built in TCP/IP for communication to PAC Access Central or EasiNet Residential software and RS485 for slave PAC 512 Controllers

The PAC 512DCi combined with the Access Central software sits perfectly on a clients IP infrastructure delivering advanced access control, security and rules based functions.

PAC 512 DC Controllers

Unboxed PAC 512 DC Access controller

909030055



Complete with DIN Mount for fitting in to PAC's DIN Mount cases (p/n 10031 and 10032)

- Manages Access through Two Doors
- Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder
- 3Amp Thermal Fuse protection to Lock Relays
- Local Anti-passback
- Built in RS232 and RS485 for communication to PAC Access Central or EasiNet Residential software

Boxed PAC 512 DC Access controller

909030054



Complete with metal case, lock, tamper switch and 3Amp PSU

- Manages Access through Two Doors
- Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder
- 3Amp Thermal Fuse protection to Lock Relays
- Local Anti-passback
- Built in RS232 and RS485 for communication to PAC Access Central or EasiNet Residential software

Boxed PAC 512 DC Access Controller

909031074



Complete with metal Sarel Cabinet, lock, tamper switch and 3Amp PSU

- Manages Access through Two Doors
-Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder
- 3Amp Thermal Fuse protection to Lock Relays
- Local Anti-passback
- Built in RS232 and RS485 for communication to PAC Access Central or EasiNet Residential software

Boxed PAC 512 DC Access Controller

909031076



In Sarel Cabinet complete with GSM Modem and low profile aerial

- Manages Access through Two Doors
- Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder
- 3Amp Thermal Fuse protection to Lock Relays
- Local Anti-passback
- GSM Modem included with Low profile Aerial for communication to PAC Access Central or EasiNet Residential software

Unboxed PAC 512 DC Access controller

909030765



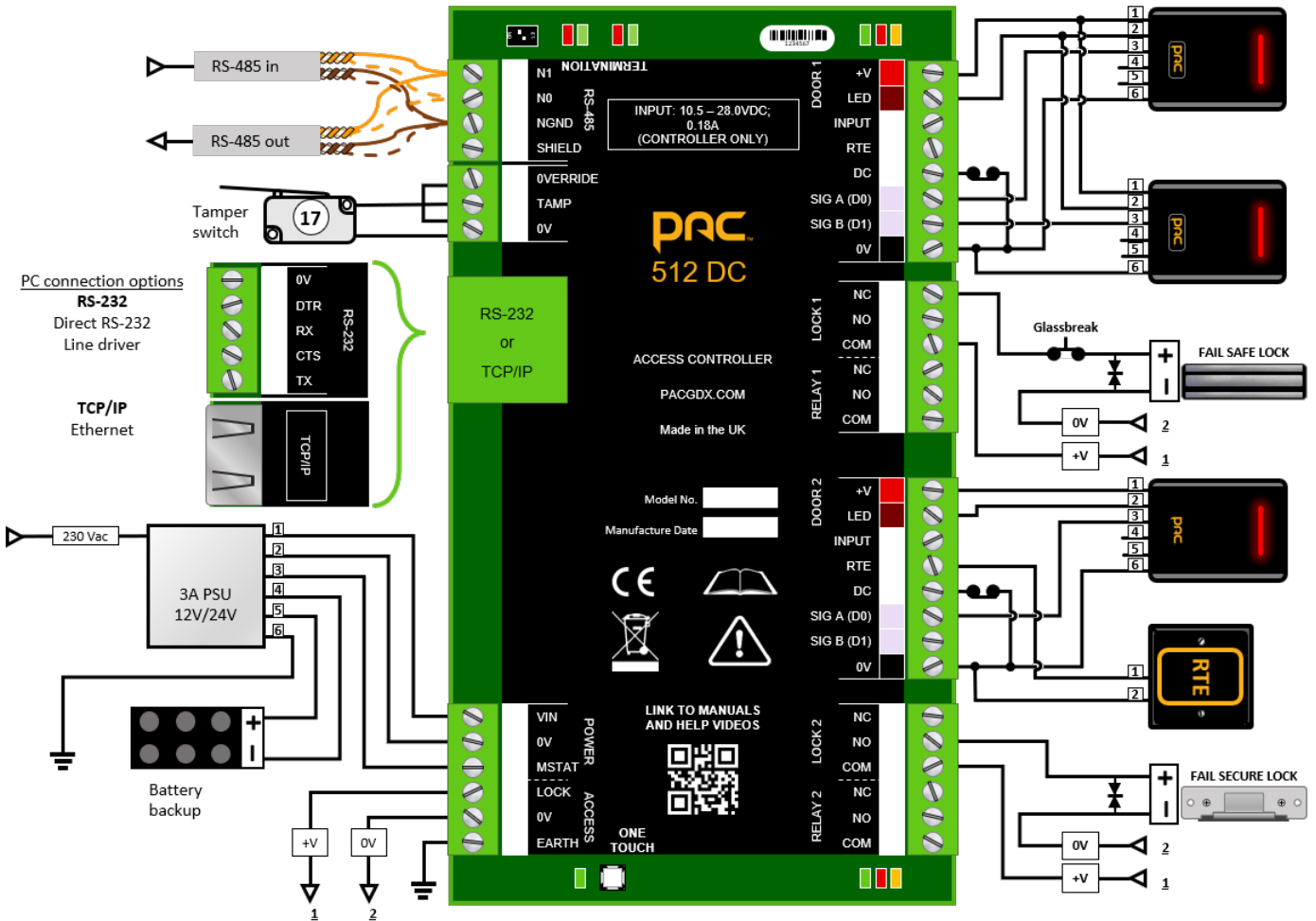
PCB only option

- Manages Access through Two Doors
- Read In/Out when using PAC and PAC64 output readers
- Up to 20,000 Keyholder Database - based on 1 credential record per Keyholder

PAC 512 Summary

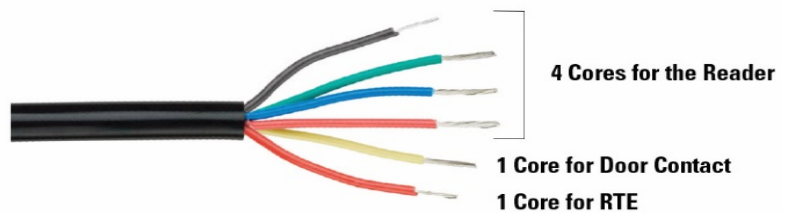
PAC 512 DC and 512 DCi Board Layout

The diagram below shows all the connection points for both PAC 512DC and 512DCi.



PAC Reader Cabling

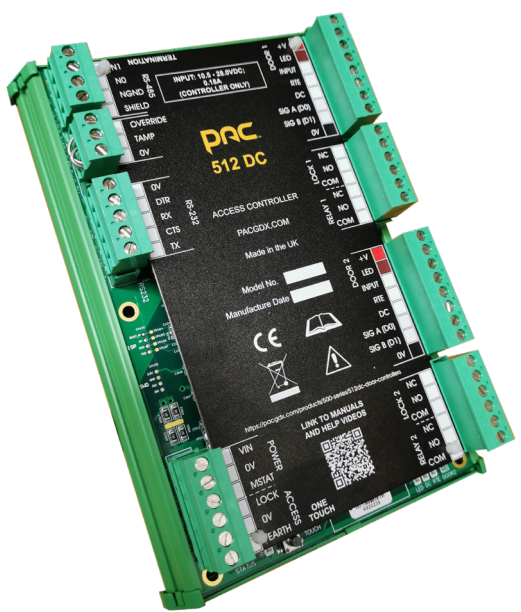
Using 6-core stranded cable (alarm cable) from the controller to the door, provides sufficient cores for the reader, door contact and request to exit, sharing the ground.



Did You Know...

The new PAC512DC and 512DCi controllers support many functions previously only offered by the PAC500?

You can now configure Event to Action, Muster, Alarm Points and many more functions on the 512 controller family when paired with PAC Access Central.



Power Supply Units & Enclosures

Power Supply Units

The new PAC power supply units are designed to couple high performance with energy efficiency for the PAC 500 series.

They are reliable power supply units that meet the stringent California Energy Commission (CEC) Level 6 standard. All PSU's have the capability to support battery backup.

DIN Rail Power Supply with Battery Charger - Output 12 V DC at 50W

909032059



DIN Rail Power Supply with Battery Charger - Output 12 V DC at 50W

- Used in 12V installations
- Drives a 12V door lock and peripherals

DIN Rail Power Supply with Battery Charger - Output 24 V DC at 50W

909032059/1.00



DIN Rail Power Supply with Battery Charger - Output 24 V DC at 50W

- Used in 24V installations
- Drives a 24V door lock and peripherals

Power Supply with Battery Charger - Output 12 V DC at 50W

952/2.00



Power Supply with Battery Charger - Output 12 V DC at 50W

- Used in 12V installations
- Drives a 12V door lock and peripherals

Power Supply with Battery Charger - Output 24 V DC at 50W

952/3.00



Power Supply with Battery Charger - Output 24 V DC at 50W

- Used in 24V installations
- Drives a 24V door lock and peripherals

Enclosures

Four-way lockable DIN rail enclosure

10031



Complete with fixing for tamper switch (Tamper switch not included)

Six-way lockable DIN rail enclosure

10032



Complete with fixing for tamper switch (Tamper switch not included)



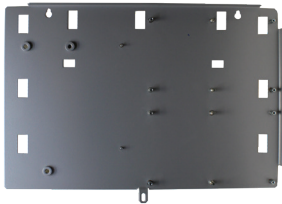
Upgrade Kits

Designed to assist and make upgrading from legacy PAC 2100/2200 door Controllers easy.

These upgrade kits provide a simple and quick method of replacing legacy or faulty equipment with new PAC 512 series controllers.

Retrofit Kit - PAC 2000 Series to PAC 512 Series Controller Back Plate

909021753

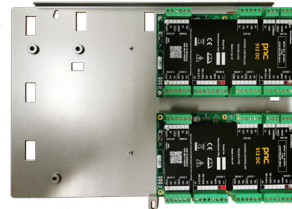


Complete with fixings for two PAC 512 series controllers

- Metal backplate designed to fit into the existing PAC 2100/2200 housing
- Complete with fixings for two PAC 512 series controllers and wiring loom to allow connection to existing 940/930 PSU

Retrofit Kit

909030909

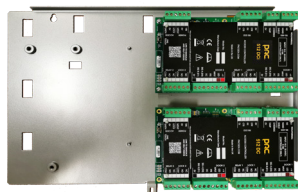


Complete with two PAC 512 DC Controllers

- Metal backplate designed to fit into the existing PAC 2100/2200 housing
- complete with two PAC 512 DC Controllers and wiring loom to allow connection to existing 940/930 PSU

Retrofit Kit

909030908



Complete with PAC 512DCi & PAC 512 DC controllers

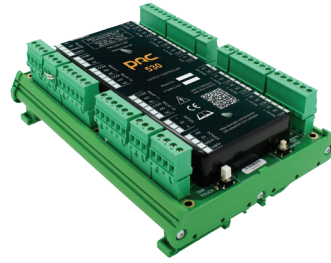
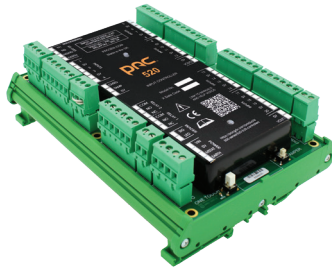
- Metal backplate designed to fit into the existing PAC 2100/2200 housing
- Complete with a PAC 512DCi and PAC 512 DC controller and wiring loom to allow connection to existing 940/930 PSU



Input/Output Controllers

I/O Controllers support a number of inputs and output relays for connecting and driving additional devices on site.

The I/O Controllers provide actions based on event driven rules set-up and managed within the PAC Management software.



PAC 520 Input Controllers

24

The PAC 520 Input Controller is a powerful, feature rich Input Controller that has 20 user configurable inputs and 2 outputs.

PAC 530 Output Controllers

26

The PAC 530 Output Controller is a powerful, feature rich Output Controller that has 12 user configurable outputs and 2 inputs.

PAC 520 Input Controller

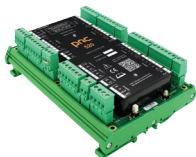
PAC 520 Input Controller

With a whole range of features, the PAC 520 Input Controller offer easy extension of the PAC access control system into alarm monitoring and management capability.

Enabling alarm points to be input into the PAC access control system allows operators to have a single pane of glass for proactive alarm management across the building or estate they manage. The configurable Event to Action features enable alarm points to generate actions when triggered. These actions include proactive notifications, driving an output for local action (e.g. deploying a security shutter), moving a camera to a defined pre-set position, or secure an area.

PAC 520 Input Controller - DIN Mount

909020053

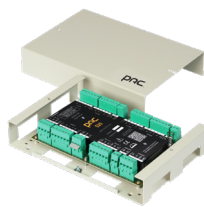


DIN mountable 520 Input Controller

- 20 user configurable inputs
- 2, 3 or 4 state inputs
- 2 x 5Amp output relays
- One-Touch™ test mode for ease of commissioning and in-life fault diagnosis
- Configured via Access Central management software

PAC 520 Input Controller in a Metal Case

909020051



Boxed 520 Input Controller in a metal case

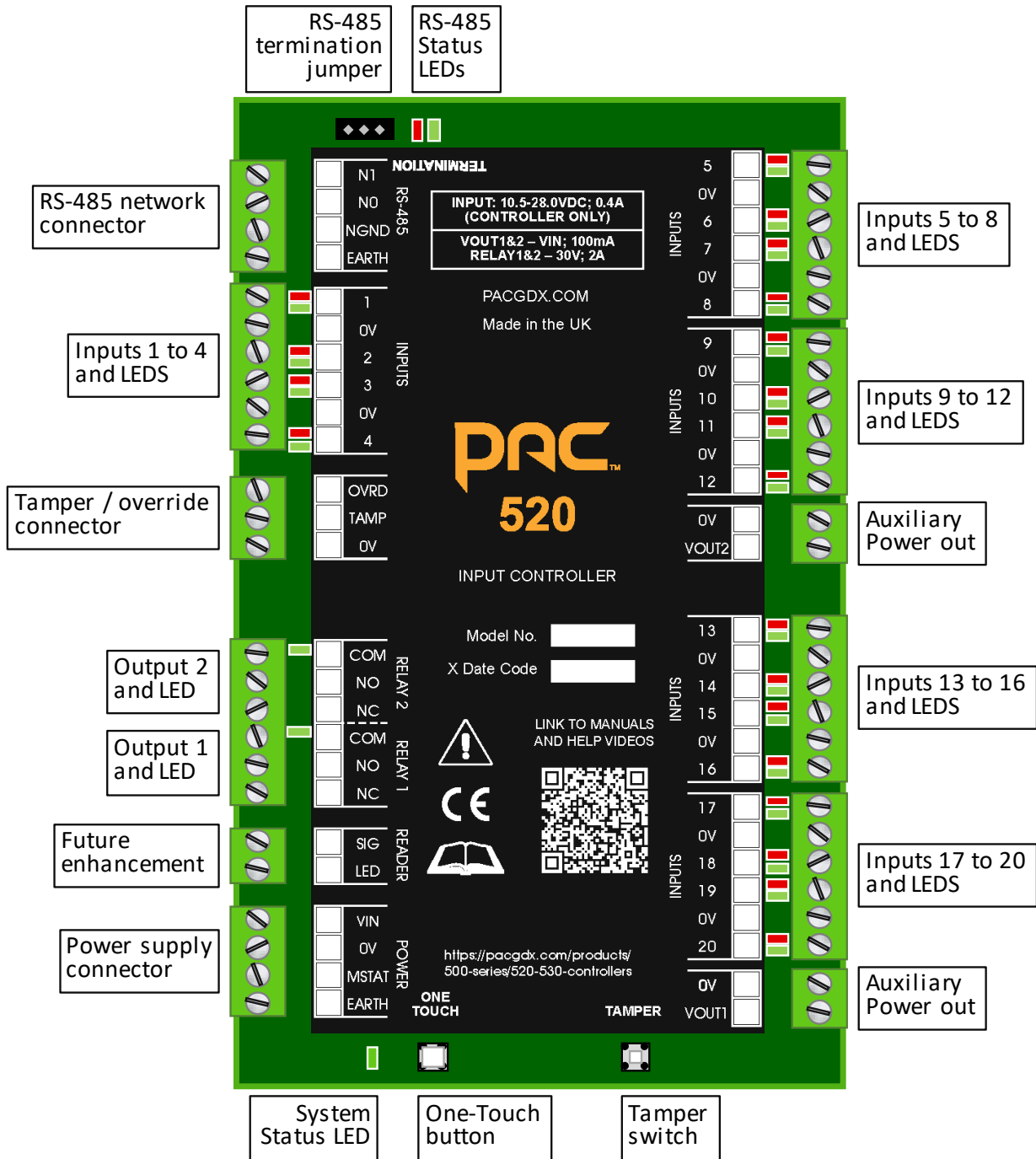
- 20 user configurable inputs
- 2, 3 or 4 state inputs
- 2 x 5Amp output relays
- One-Touch™ test mode for ease of commissioning and in-life fault diagnosis
- Configured via Access Central management software

Did you know that the PAC 520 Input Controller is the key to proactive alarm management?
This offers a peace of mind for users.



PAC 520 Board Layout

The diagram below shows all the connection points for PAC 520 Controller



PAC 530 Output Controller

PAC 530 Output Controller

The PAC 530 Output Controller is a fully featured device that enables extension of the PAC access control system into additional access control and security management functions.

The PAC 530 Output Controller offers a variety of customer benefits through additional control functions. Being able to extend access control to the Lifts within a building offers user flexibility on securing areas within a building to support enhanced security. It is also easy to control other equipment with the PAC 530 Output Controller including security shutters, CCTV cameras and door bolts or releases.

PAC 530 Output Controller - DIN Mount

909020052

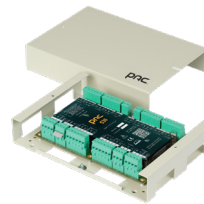


DIN mountable 530 Output Controller

- 12 user configurable outputs (10 x 2Amp and 2 x 8Amp)
- Multiple output modes including latched, momentary, toggled and pulsed.
- Configurable time profiles
- 2 x user configurable inputs (2, 3 or 4 state modes)
- One-Touch™ test mode for ease of commissioning and in-life fault diagnosis
- Configured via Access Central management software

PAC 530 Output Controller in a Metal Case

909020050



Boxed 530 Output Controller in a metal case

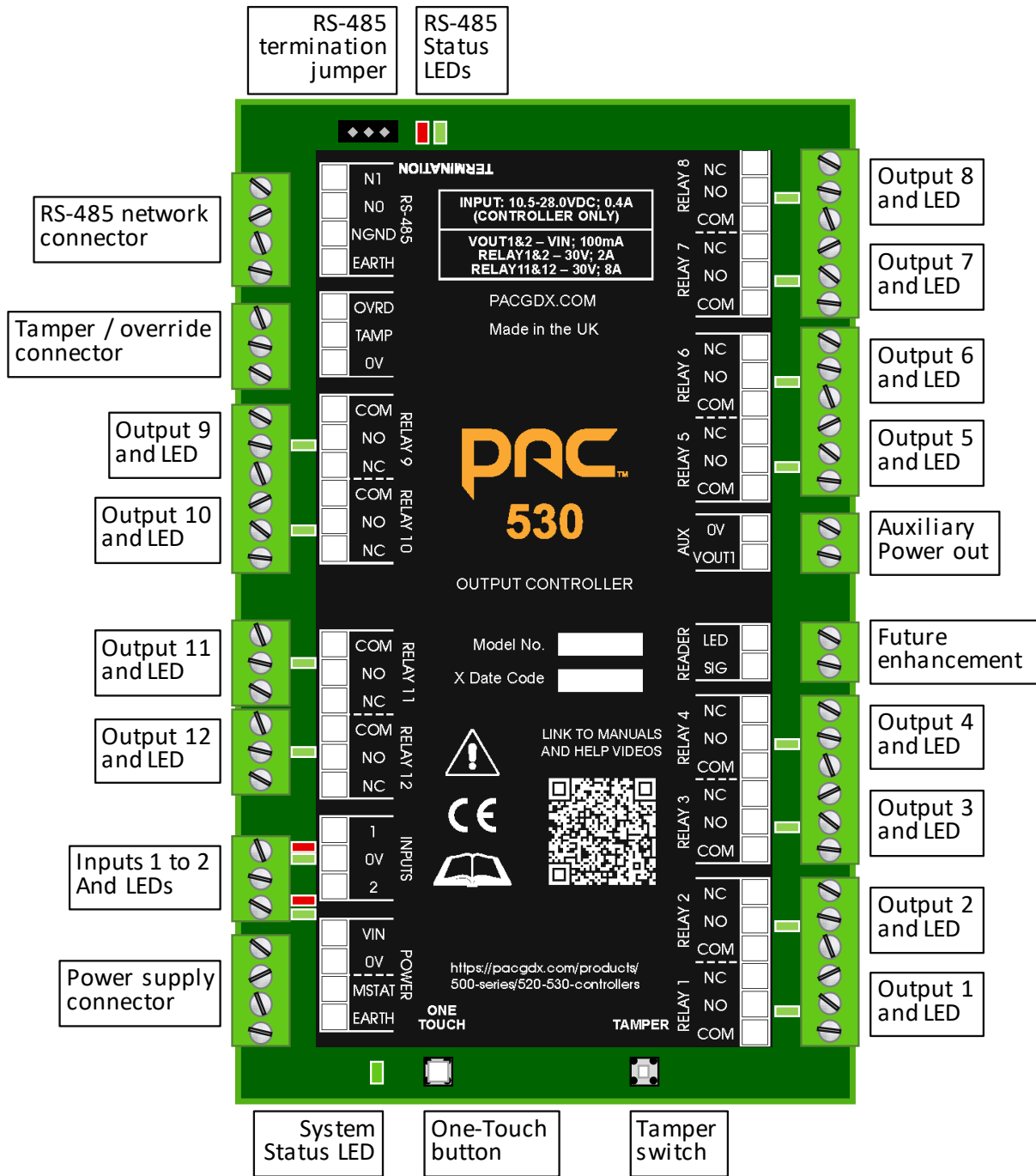
- 12 user configurable outputs (10 x 2Amp and 2 x 8Amp)
- Multiple output modes including latched, momentary, toggled and pulsed.
- Configurable time profiles
- 2 x user configurable inputs (2, 3 or 4 state modes)
- One-Touch™ test mode for ease of commissioning and in-life fault diagnosis
- Configured via Access Central management software

Are you aware that proactive building control is easily achievable? This is through the use of automated output control when a pre-configured event is triggered.



PAC 530 Board Layout

The diagram below shows all the connection points for PAC 530 Controller





Readers

Truly versatile, scalable and backward compatible for ease of upgrading, PAC Readers provide an unparalleled standard of security and robustness in a variety of applications.

A wide range of PAC readers are available to meet customers requirements, based on a variety of factors including authentication method, installation options or aesthetics. They are all designed and manufactured to high standards with a deserved reputation for their longevity in all environments.

Reader Collection



PAC Low Frequency Readers 30

The PAC LF reader range supports all PAC LF ID Devices as well as many Wiegand format Tokens.



Low Frequency

Security Level: Medium



PAC High Frequency Readers 32

The PAC HF reader range supports all PAC HF ID Devices as well as many Wiegand format Tokens.



High Frequency



Reduced risk of Token Cloning

Security Level: High



PAC GS3 Multi Technology Readers 34

PAC's MT Readers are ideal for sites where support of multiple ID Device types is required as they support both LF and HF ID devices.



Multi-Technology

Security Level: Medium or High



Architect Range by PAC 36

The Architect Readers support installations which require reliability and security with the added benefit of Mobile ID capability.



High Frequency



Mobile ID

Security Level: High



Biometric Reader Range 38

The Biometric Reader range offers high quality fingerprint verification of users as their access control identification.



Fingerprint Verification

Security Level: High



Biometric Reader Range Options 40

A range of components that support the deployment and management of the Biometric Readers.

PAC Low Frequency Readers

Low Frequency RFID technology (LF)

The PAC LF reader range supports all PAC LF ID Devices as well as many Wiegand format Tokens.

Designed to work in the most demanding of operating environments, the LF Readers support installations which require reliability and security. There are 4 models available, which support deployment for all commercial and residential scenarios.

PAC GS3 LF - Mullion Reader

909020110



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials

- Up to 85mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

PAC GS3 LF - Standard Reader

909020111



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials

- Up to 85mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

PAC GS3 LF - Vandal Reader

909020116 (Yellow & Black)



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials

- Up to 40mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Integral Tamper circuit and 2m flying connection cable
- Lifetime Warranty against electronic failure

Note: Vandal Screwdriver required for installation, part number 1950.

PAC GS3 LF - Vandal Reader

909022116 (Blue & Grey)



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials

- Up to 40mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Integral Tamper circuit and 2m flying connection cable
- Lifetime Warranty against electronic failure

Note: Vandal Screwdriver required for installation, part number 1950.



Security Level: Medium

Low Frequency



READERS

PAC GS3 LF - Panel Mount Reader

909020117 (Yellow & Black)



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials.

- Up to 45mm Reading Range
- Designed to Fit into OEM Door Entry Panels
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Lifetime Warranty against electronic failure

PAC GS3 LF - Panel Mount Reader

909022117 (Blue & Grey)



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials

- Up to 45mm Reading Range
- Designed to Fit into OEM Door Entry Panels
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Lifetime Warranty against electronic failure

PAC Exit Devices

This is a PAC Exit Device that is located on the secure side of the door used to unlock the door to exit.

Hands Free Request to Exit Button

GB014617



The hands free RTE button comes with the following features:

- Stainless Steel plate
- IR button rated to IP65
- 12V-20V DC powered
- LED indication buttons
- Adjustable latch time from 0.5 to 30 seconds
- Adjustable trigger distance from 4 to 15cms
- Designed to prevent any interference with other infra-red devices
- Fits into a single gang electrical backbox

Push to Exit

23002



25mm button, single gang stainless steel plate

Push to Exit (Yellow ring)

23003



25mm button with Yellow ring, single gang stainless steel plate

PAC High Frequency Readers

High Frequency RFID technology (HF)

The PAC HF reader range supports all PAC HF ID Devices as well as many Wiegand format Tokens.

Using PAC's unique OneProx™ smart (Ops™) technology coupled with the industry leading MIFARE and DESFire EV1 ID Device encryption protocols, the highest available standard of access control security is achieved. The most secure PAC access control system is via the use of a High Frequency capable reader (PAC HF, MT or Architect Reader) with the PAC Ops™ ID Device.

PAC GS3 HF - Mullion Reader

909020120



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 45mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

PAC GS3 HF - Standard Reader

909020121



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 65mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

PAC GS3 HF - PIN & Prox Reader

909020122



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 65mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

PAC GS3 HF - Vandal Reader

909020118 (Yellow & Black)



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 40mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Integral Tamper circuit and 2m flying connection cable
- Lifetime Warranty against electronic failure

Note: Vandal Screwdriver required for installation, part number 1950.

Concerned with Token cloning?

Token cloning is a serious issue faced by many organisations in various fields, from housing associations to hospitals, hotels, commercial premises and high security environments. To beat this issue, PAC have developed the Oneprox™ Smart (Ops) technology, delivering the highest available standard of access control security within the industry. Our range of HF readers minimise the risk of token cloning and are backward compatible for ease of upgrading.



Security Level: High

High Frequency



Reduced risk of Token Cloning



PAC GS3 HF - Vandal Reader

909022118 (Blue & Grey)



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 40mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Integral Tamper circuit and 2m flying connection cable
- Lifetime Warranty against electronic failure

Note: Vandal Screwdriver required for installation, part number 1950.

PAC GS3 HF - Panel Mount Reader

909020119 (Yellow & Black)



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 20mm Reading Range
- Designed to fit into OEM Door Entry Panels
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Lifetime Warranty against electronic failure

READERS

PAC64 reader output is used for all systems supporting PAC Ops™ ID Devices.

PAC GS3 HF - Panel Mount Reader

909022119



Reads PAC Ops™, MIFARE DESFire® EV1 Credentials

- Up to 20mm Reading Range
- Designed to fit into OEM Door Entry Panels
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's and Audible Sounder
- Lifetime Warranty against electronic failure

PAC GS3 HF – Backbox Reader

909020124



Reads PAC Ops, MIFARE DESFire® EV1 Credentials

- Designed to fit onto a UK Electrical back box
- Up to 100mm Reading Range
- PAC and PAC64 output only
- Visual Indication – Single LED changing Red to Green
- Not recommended for external use

PAC Multi-Technology Readers

Multi-Technology Readers, supporting both LF and HF ID Devices.

PAC's MT Readers are ideal for sites where support of multiple ID Device types is required.

The PAC MT Reader range also supports many Wiegand format ID Devices. This enables the MT Readers to be used in sites which are transitioning between older LF ID Devices to higher security HF ID Devices. Designed to work in the most demanding of operating environments, the MT Readers support installations which require reliability and security.

PAC GS3 MT - Mullion Reader

909020112



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials plus PAC Ops™ and PAC Ops Lite™

- Up to 45mm with LF credentials and 85mm with HF credentials Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

PAC GS3 MT - Standard Reader

909020113



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials plus PAC Ops™ and PAC Ops Lite™

- Up to 45mm with LF credentials and 85mm with HF credentials Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure

Wiegand reader output is used for all systems supporting Wiegand ID Devices.

Scan the code to watch our PAC Reader Connection Tutorial Video



PAC GS3 MT - PIN & Prox Reader

909020114



Reads PAC, STANLEY, KeyPAC and many Wiegand credentials plus PAC Ops™ and PAC Ops Lite™

- Up to 65mm Reading Range
- Multiple Outputs - PAC, PAC64, Wiegand 26, Wiegand 34 and Wiegand Emulation
- Audio/Visual Identification - Two LED's in a light bar and Audible Sounder
- Integral Tamper circuit and Mounting Plate
- Lifetime Warranty against electronic failure



PAC 512 DC One Touch™ Test

PAC's One Touch™ installer test facility enables the functionality of each controller and its associated circuits to be tested locally even before the construction of each network channel is complete. This is a valuable commissioning tool. OneTouch™ also supports on-site centralised fault finding to reduce fault diagnosis times.

Test	Action	Observation	
		Controller	Reader
Normal Operation	Hold down the Mode button for 4 seconds.	System Status: GREEN flashes at normal rate	
		Door status: All LEDs off.	
One-Touch View Mode	Hold down One-Touch™ button for less than 2 seconds. Present keys, press RTE switches and observe LEDs. Automatically exits after 2 minutes.	System status GREEN flashes at normal rate.	
		Door status: GREEN on, valid key presented to reader.	
		Door status: GREEN flashes, invalid key presented to reader.	
		Door status: RED on, door open.	
One-Touch Active Mode	Hold down One-Touch™ button for 2 to 4 seconds.	System status: GREEN flashes faster than normal.	Normal operation of the reader LED changes, e.g. if default is red it changes to green.
Reader and Request to Exit Test	Present a key to each reader (the lock will activate).	Door status: GREEN flashes once for SIGA, twice for SIGB.	Reader LED flashes once for SIGA, twice for SIGB
	Press the Request to Exit switch (the lock will activate).	Door status: GREEN flashes three times and YELLOW is on.	Reader LED flashes three times.
	Open the door contact.	Door status: GREEN flashes four times and RED is on.	Reader LED flashes four times.
Auxiliary and Lock Relays Test	Present a key to a reader, press the Request to Exit switch and open the door contact simultaneously.	The appropriate auxiliary relay is activated.	
	Remove link to 0V on tamper or open circuit tamper switch.	Both auxiliary relays are activated.	
	Remove link to 0V on emergency override or leave open circuit tamper switch.	The auxiliary relay is activated.	
Tamper and Override Test	Remove the link between Tamp and 0V on the Tamper and Override terminal block.	The auxiliary relay is activated but the door is unaffected.	
	Remove the link between OVRD and 0V on the Tamper and Override terminal block	The auxiliary relay is activated, the door opens and the lock operates.	
Leave OneTouch™ Test Mode	Hold down the Mode button for three seconds. One Touch™ Test Mode will automatically time out after one hour of inactivity.	The green Mode Status LED returns to its normal flash rate	The reader LED returns to its normal operation

As an extension of the functions offered by OneTouch™ mode, there is a commissioning tool implemented in Access Central software.

This allows the connection to the hardware to be validated and a walk test for a single engineer to be setup.

Architect Range by PAC

Turn your smartphone into your access control ID



Architect Readers are high security readers that offer multiple ID Device support (including Mobile IDs), all with stunning aesthetics.

The Architect Reader range supports all PAC HF ID Devices. They also support high security Mobile ID's that allow a user's smartphone to become the ID Device. The Mobile ID's high security level comes from utilising the latest encryption, secure storage and authentication technologies meeting First Level Security Certification (CSPN) delivered by ANSSI (French Network and Information Security Agency).

Architect Readers

Architect One Reader

7257710



Mullion high security reader for supporting RFID ID devices

- Supports the following ID Devices: PAC Ops Lite and PAC Ops
- Supports Card Mode as User Access Mode
- PAC HF ID Device reading range up to 60mm
- Accelerometer-based tamper detection system with key deletion option (patented solution)

Architect A Reader

7257712



Standard high security reader for supporting RFID ID devices

- Supports the following ID Devices: PAC Ops Lite and PAC Ops
- Supports Card Mode as User Access Mode
- PAC HF ID Device reading range up to 80mm
- Accelerometer-based tamper detection system with key deletion option (patented solution)

The Architect Range by PAC not only supports our high security Mobile ID Devices, they also support our PAC Ops™ Lite and PAC Ops™ ID Devices.





Architect Blue Readers



Architect One Blue Reader

7257711



Mullion high security reader for supporting RFID ID devices and mobile IDs using your smartphone

- Supports the following ID Devices: PAC Ops Lite, PAC Ops and Mobile IDs
- Supports the following User Access mode: Card mode, Remote mode, Tap tap mode and Hands free mode
- Configurable ID Device reading range of up to 60mm for PAC HF ID Devices and 20m for Mobile IDs



Architect A Blue Reader

7257713



Standard high security reader for supporting RFID ID devices and mobile IDs using your smartphone

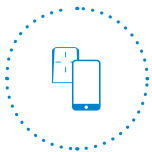
- Supports the following ID Devices: PAC Ops Lite, PAC Ops and Mobile IDs
- Supports the following User Access mode: Card mode, Remote mode, Tap tap mode and Hands free mode
- Configurable ID Device reading range of up to 80mm for PAC HF ID Devices and 20m for Mobile IDs



READERS

5 identification modes for a unique user experience.

Choose your identification mode to make your access controls both secure and much more instinctive.



Card mode

Place your smartphone in front of the reader as a standard card.



Hands-free mode

Just walk past the reader to activate. There's nothing else to it!



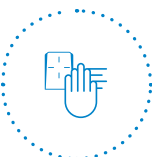
Remote mode

Press and enter! Activate remote control mode to remotely check your access points.



Tap Tap mode

Tap and enter! You can open a door by tapping your smartphone twice in your pocket for close or remote access.



Slide mode

Slide. Come in! Your hand becomes a card that you always have on you, without needing to take out your smartphone.

Biometric Readers

ievo Biometrics - Fingerprint



The ievo biometric range of readers comes complete with a PAC output enabling direct connection to any of the PAC 512 range of controllers and is CPNI certified.

The ievo readers have been designed after many years of research by a team of professionals who have been at the cutting edge of biometric deployment, installation and integration. Available in two models, the Ultimate and the Micro, they provide a flexible solution for any site wishing to have secure access without the need to carry additional identification ID such as a card or token.

Ultimate Rev 4 Biometric Reader and Control Board

7256412



Ultimate Rev 4 Biometric Reader and Control Board

7256413



A bundled solution that integrates into PAC systems and contains:

- an Ultimate Rev 4 Biometric Reader (7255493)
- a Rev 4 Control Board (7255489)
- Support for up to 10,000 fingerprint templates

A bundled solution that integrates into PAC systems and contains:

- an Ultimate Rev 4 Biometric Reader (7255493)
- a Rev 4 Control Board (7255489)
- support for up to 50,000 fingerprint templates

Micro Rev 4 Biometric Reader and Control Board

7256414



Micro Rev 4 Biometric Reader and Control Board

7256415



A bundled solution that integrates into PAC systems and contains:

- a Micro Rev 4 Biometric Reader (7255495)
- a Rev 4 Control Board (7255489)
- support for up to 10,000 fingerprint templates

A bundled solution that integrates into PAC systems and contains:

- a Micro Rev 4 Biometric Reader (7255495)
- a Rev 4 Control Board (7255489)
- support for up to 50,000 fingerprint templates



ievo Biometrics Reader Options



Supporting the deployment and management of the Biometric Readers.

The ievo products are fully integrated into PAC Access Central and EasiNet residential software allowing the administration of the fingerprint templates from a single application making for a better end user experience.

READERS

Ultimate Rev 4 Biometric Reader

7255493



Designed for External use and mounting to the surface of the wall

- Fingerprint Identification < 1 Second
- Multispectral image sensor
- Spoof detection
- Unobtrusive design and user-friendly design
- LED accepted/denied indication built into button
- Audio beep indication

Micro Rev 4 Biometric Reader

7255495



Designed for internal use that can be easily installed

- Fingerprint Identification < 1 Second
- Spoof detection
- Unobtrusive design and user-friendly design
- LED accepted/denied indication built into button
- Audio beep indication

Biometric Reader Options

ievo Biometrics Reader Options



Supporting the deployment and management of the Biometric Readers.

The ievo products are fully integrated into PAC Access Central and EasiNet residential software allowing the administration of the fingerprint templates from a single application making for a better end user experience.

Rev 4 Control Board

7255489



Supports the fingerprint database for the Biometric Readers

- Dedicated fingerprint matching system for 10>50,000 fingerprint templates
- Supports up to two Biometric Readers
- DC Powered (12-24V)

Rev 4 PoE Control Board

7255490



Supports the fingerprint database for the Biometric Readers

- Dedicated fingerprint matching system for 10>50,000 fingerprint templates
- Supports up to two Biometric Readers
- Power over Ethernet (POE) powered (IEEE 802.at)

Rev 4S Compatible Control Board

7255510



Supports the fingerprint database for the Biometric Readers

- ievo Rev 3 compatible control board
- Supports one Rev 3 Biometric Reader
- Supports upto 8,000 Rev 3 fingerprint templates
- DC powers (12-24V)

Rev 4S Compatible PoE Control Board

7255511



Supports the fingerprint database for the Biometric Readers

- ievo Rev 3 compatible control board
- Supports one Rev 3 Biometric Reader
- Supports upto 8,000 Rev 3 fingerprint templates
- Power over Ethernet (POE) Powers (IEEE 802.at)

Rev4S boards provide compatibility with existing Rev3 (and earlier) installations.



Ultimate USB Desktop Reader

7255497



Designed for fingerprint registration that is used by the Biometric readers

- Used for systems including Ultimate readers or mixed systems with Ultimate and Micro readers
- USB Powered
- Reliable user-friendly design

Micro USB Desktop Reader

7255498



Designed for fingerprint registration that is used by the Biometric readers

- Used for systems with Micro readers only
- USB Powered
- Reliable user-friendly design

READERS

Surface Mount Kit for Ultimate Readers

40364



Allows the ievo Ultimate Reader to be surface mounted onto the fabric of the building.

Note: reader not included

ievo Flush Mount Kit for Ultimate Readers

40365



Allows the ievo Ultimate Reader to be flush mounted on to the fabric of the building

Note: Reader not included

Relay module for LED control

40368



Handy relay for allowing the PAC 512 controllers to control the LED on the ievo range of biometric readers



ID Devices

PAC ID Devices come in a range of forms (token, card or mobile) and technology types that enable a variety of user options.

The variety of user options enable PAC ID Devices to suit many different access control deployments throughout the commercial, residential and educational sectors. The following sections detail the ID Devices orderable with the PAC access control system.



All PAC ID Devices come with a lifetime guarantee against electronic failure.

ID Devices Collection



PAC ID Devices 44

PAC ID Devices are available in 2 forms: tokens and cards.



Low Frequency



153.6kHz

Security Level: Medium



KeyPAC ID Devices 46

KeyPAC ID Devices come in two forms: tokens and cards.



Low Frequency



125kHz

Security Level: Medium



STANLEY ID Devices 48

Stanley ID Devices are available in Token form



Low Frequency



153.6kHz

Security Level: Medium



Ops™ Lite ID Devices 49

These are HF ID Devices which are available in tokens and cards.



High Frequency



13.56kHz

Security Level: Medium



Ops™ ID Devices 50

These are HF ID Devices which are available in tokens and cards.



High Frequency



13.56kHz

Security Level: High



Architect Range Mobile ID Device 51

Mobile ID's are usable with the Architect range of Readers.



High Frequency

Security Level: High

Usable with any of the PAC LF or MT range of readers.

Low frequency RFID devices that utilise 153.6kHz passive proximity technology to be self-powered.

Designed to fit on a person's keyring, the tokens come with a variety of 11-coloured clip-on bottoms which allow for simple identification, deemed invaluable in residential sites. The ISO proximity cards are ideal for customers who wish to carry their identification in a wallet or a purse as well as include personal security details. The card can be directly printed onto with additional information such as the cardholder's photograph or signature, increasing the level of security on the customer's site.

PAC Token with PAC logo clip

909021020



Fully encapsulated in black ABS plastic, double sealed and ultrasonically welded

- Metal eyelet allowing for easy attachment to a keyring or badge clip
- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- No batteries design enables an infinite number of reads

PAC Token without PAC logo clip

20204

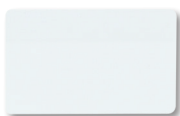


Fully encapsulated in black ABS plastic, double sealed and ultrasonically welded

- Interchangeable clip allowing for easy identification by different colours - clips sold separately
- Metal eyelet allowing for easy attachment to a keyring or badge clip
- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- No batteries design enables an infinite number of reads

PAC ISO Card, pack of 10

909021039

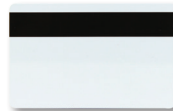


ISO card allowing for direct thermal or image transfer printing

- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- Hole punching guide provided with card
- No batteries design enables an infinite number of reads

PAC ISO Card with Magnetic Stripe - not encoded, pack of 10

909021041

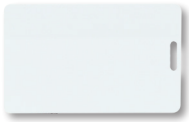


PAC ISO card with a magnetic stripe for encoding by others



**PAC ISO Card - Punched short edge,
pack of 10**

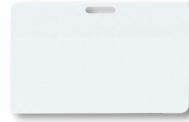
909021039/2.00



PAC ISO card with pre-punched hole along the short edge allowing for attachment to neck chain or other ID carrying device

**PAC ISO Card - Punched long edge,
pack of 10**

909021039/1.00



PAC ISO card with pre-punched hole along the long edge allowing for attachment to neck chain or other ID carrying device

**PAC ISO Card - punched both edges,
pack of 10**

909021039/11.00



PAC ISO card with pre-punched hole along both edges allowing for attachment to neck chain or other ID carrying device

PAC Logo Colour Clips

Designed for 20204 PAC Tokens



Token Clip, pack of 10 - red
40101



Token Clip, pack of 10 - green
40102



Token Clip, pack of 10 - blue
40103



Token Clip, pack of 10 - yellow
40104



Token Clip, pack of 10 - white
40105



Token Clip, pack of 10 - black
40106



Token Clip, pack of 10 - orange
40108



Token Clip, pack of 10 - turquoise
40109



Token Clip, pack of 10 - brown
40204



Token Clip, pack of 10 - pink
40205



Token Clip, pack of 10 - purple
40206

Available in both token and card form.

KeyPAC is a 125Khz range of Tokens and Cards which are passive proximity devices and require no batteries.

The KeyPAC token provides flexibility, usability and user satisfaction in any access control application, providing a quick and easy method of gaining access to an area secured by an Access Control Solution. Designed to fit on a person's keyring, the tokens offer a convenient and secure access option. The ISO proximity cards are ideal for customers who wish to carry their identification in a wallet or a purse as well as include personal security details.

KeyPAC Token

20250 (Black)



Fully encapsulated in black ABS plastic, double sealed and ultrasonically welded

- Metal eyelet allowing for easy attachment to a keyring or badge clip
- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- No batteries design enables an infinite number of reads

KeyPAC ISO Card

21030

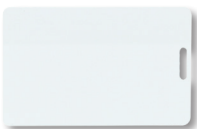


ISO card allowing for direct thermal or image transfer printing

- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- Hole punching guide provided with card
- No batteries design enables an infinite number of reads

KeyPAC ISO Card - punched short edge, pack of 10

909021030/10.00

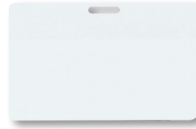


ISO card allowing for direct thermal or image transfer printing

- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- Hole punched along short edge
- No batteries design enables an infinite number of reads

KeyPAC ISO Card - punched long edge, pack of 10

909021030/11.00

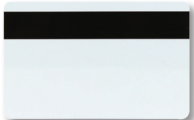


ISO card allowing for direct thermal or image transfer printing

- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- Hole punched along long edge
- No batteries design enables an infinite number of reads

KeyPAC ISO Card with Magnetic Stripe - not encoded

21031



KeyPAC 21030 ISO card with a magnetic stripe for encoding by others

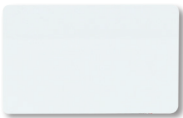


The KeyPAC ID Devices are usable with any of the PAC Low Frequency or Multi-Technology range of readers.



KeyPAC ISO Card, pack of 10

909021018



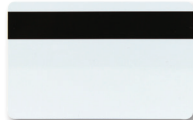
ISO card allowing for direct thermal or image transfer printing

- Unique pre-configured identity code
- Lifetime guarantee against electronic failure
- Hole punching guide provided with card
- No batteries design enables an infinite number of reads

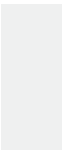


KeyPAC ISO Card with Magnetic Stripe HI-CO, Pack of 10

909021019

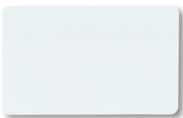


KeyPAC ISO card with a magnetic stripe for encoding by others



Self Adhesive Laminate for Card Printing - 0.35mm thick

10377



Self Adhesive laminate

- For card printing (0.35mm thick)
- To be used in conjunction with any of our ID Cards

A stylish range of STANLEY Proximity Tokens

Low frequency RFID devices that utilise 153.6kHz RFID passive proximity technology to be self-powered.

Stanley Tokens utilise the proprietary PAC protocol which was developed by PAC before RFID standards were established for access control. They utilise 153KHz RFID passive proximity technology to be self-powered and built to last.

STANLEY ID Device

909021087



Fully encapsulated in black ABS plastic, double sealed and ultrasonically welded

- Unique pre-configured identity code
- Fully Encapsulated in ABS plastic
- Available in 7 colours for ease of identification
- Self-powered, no need for batteries

Available in seven colours

Made for easy identification



STANLEY Token, single - red
909021081



STANLEY Token, single - green
909021082



STANLEY Token, single - blue
909021083



STANLEY Token, single - yellow
909021084



STANLEY Token, single - orange
909021085



STANLEY Token, single - purple
909021086



PAC Ops™ Lite 1K MIFARE

PAC Ops™ Lite ID Devices utilise 13.56MHz RFID passive proximity technology with MIFARE™ unique 4 Byte serial number. They are self-powered so no need for batteries.

PAC Ops™ Lite 1K MIFARE® Token with clip, pack of 10

909021104



- Fully encapsulated in blue ABS plastic, double sealed and ultrasonically welded
- Metal eyelet allowing for easy attachment to a keyring or badge clip
 - 1K MIFARE 4byte serial number
 - Designed for harsh environments
 - Lifetime guarantee against electronic failure
 - Complete with blue clip

PAC Ops™ Lite 1K MIFARE® Token without clip, pack of 10

909021101

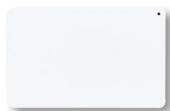


- Fully encapsulated in blue ABS plastic, double sealed and ultrasonically welded
- Metal eyelet allowing for easy attachment to a keyring or badge clip
 - 1K MIFARE 4byte serial number
 - Designed for harsh environments
 - Lifetime guarantee against electronic failure
 - Clip not included

ID DEVICES

PAC Ops™ Lite 1K MIFARE® Card, pack of 10

909021105



- ISO card allowing for direct thermal or image transfer printing
- 1K MIFARE 4byte serial number
 - Lifetime guarantee against electronic failure
 - No batteries design enables an infinite number of reads



Smart Token Colour Clips - bag of 10

For use with 21101 and 21102 PAC Tokens (clip attaches to the eyelet end of the token)



20267



20268



20270



20269



20263



20272



20273



20271

PAC Ops™ 4K MIFARE DESFire

PAC Ops™ 4K MIFARE DESFire ID devices utilise 13.56MHz RFID passive proximity technology with MIFARE™ unique 7 Byte serial number. They are self-powered so no need for batteries.

PAC Ops™ 4K MIFARE DESFire® EV1 Token without clip, pack of 10

909021102

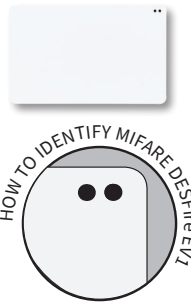


Fully encapsulated in grey ABS plastic, double sealed and ultrasonically welded

- Metal eyelet allowing for easy attachment to a keyring or badge clip
- 4K MIFARE DESFire 7byte unique serial number
- Designed for harsh environments
- Lifetime guarantee against electronic failure
- Clip not included

PAC Ops™ 4K MIFARE DESFire® EV1 Card, pack of 10

909021106



ISO card allowing for direct thermal or image transfer printing

- 4K MIFARE DESFire 7byte unique serial number
- Lifetime guarantee against electronic failure
- No batteries design enables an infinite number of reads

PAC Ops™ 4K MIFARE DESFire® EV1 Token with clip, pack of 10

909021103



Fully encapsulated in grey ABS plastic, double sealed and ultrasonically welded

- Metal eyelet allowing for easy attachment to a keyring or badge clip
- 4K MIFARE DESFire 7byte unique serial number
- Designed for harsh environments
- Lifetime guarantee against electronic failure
- Complete with Grey clip

Smart Token Colour Clips - bag of 10

For use with 21101 and 21102 PAC Tokens (clip attaches to the eyelet end of the token)



20267



20268



20270



20269



20263



20272



20273



20271



Usable with the Architect Range of Readers.



Mobile ID Devices are access control credentials stored on a smartphone (Android™ and iOS®).

Mobile ID Devices work alongside, extend or replace traditional ID Devices. Supported through a dedicated app called STid Mobile ID. The Mobile ID is securely stored on the user's smartphone using 128bit AES standards to encrypt and authenticate the unique Mobile ID.

Blue Secure Mobile ID Device

72577118



High security, equivalent to PAC Ops security

- Unique private card number issued via a customer dedicated web portal
- Allows mobile phone to be used as the ID device via a Bluetooth/NFC connection to a supported Architect Reader
- Multi-mode identification and authentication can be implemented (providing the smartphone supports them) including:
 - o PIN Code
 - o Biometrics
 - o Voice recognition
- Recommended for staff/resident access

5 identification modes for a unique user experience

Choose your identification mode to make your access controls both secure and much more instinctive.



Card mode

Place your smartphone in front of the reader as a standard card.



Hands-free mode

Just walk past the reader to activate. There's nothing else to it!



Remote mode

Press and enter! Activate remote control mode to remotely check your access points.



Tap Tap mode

Tap and enter! You can open a door by tapping your smartphone twice in your pocket for close or remote access.



Slide mode

Slide. Come in! Your hand becomes a card that you always have on you, without needing to take out your smartphone.



Management

PAC management options are designed with the end user in mind. They integrate seamlessly with the PAC controllers to provide a powerful configuration and in-life management platform.

The EasiNet Residential and Access Central Software are the ideal platforms to help you control and monitor access of your staff, residents and visitors. Designed to support a variety of applications, from small, single block premises to a global network of offices or multi-site residential estates, PAC software delivers integrated security solutions with the ability to add a range of additional services like CCTV monitoring, lift call, etc.



Access Central™

54

Access Central is a management platform dedicated to commercial and educational environments.



EasiNet™ Residential

58

The PAC Easinet Residential software is specifically designed for residential customers.



Residential Cloud

62

Providing flexible management of PAC residential deployments through a high availability cloud platform.

Access Central™

Designed for commercial applications.



A management platform dedicated to commercial/educational environments.

With easy to install, maintain and report features, Access Central supports the administrator of the access control within a business. A scalable solution enables PAC to provide quality access control from the Small & Medium Business (SMB) customer to large corporate/enterprise customers.

Access Central™ SE Edition Software

13490/1.00



SE edition
Software downloadable from the
www.pacgdx.com website.

Access Central™ Professional Edition Software

13491/1.00



Professional edition
Software downloadable from the
www.pacgdx.com website.

Features & Benefits

- **Keyholder Management**
Details of keyholder records, their keys and access privilege
- **Wide range of Access Control functionality**
Simple and advanced access control functions such as lift control, anti-passback or passage mode
- **Powerful Event to Action Engine**
Event triggered rules for performing simple to complex tasks such as security lockdown, cctv camera actions or fire alarm muster.
- **Built in integration to other security applications**
Integrations to applications such as DVRs, Active Directory, Control Rooms and Time & Attendance
- **Event, Audit trail, Alarm, Map Management & Reporting**
Events describe system activities
 - Audit trail tracks changes to system configuration
 - Alarm highlights controlled activities within the system
 - Maps track where activities are occurring within the system
 - Reports to describe what has happened within the system
- **Powerful API to 3rd Party Applications**
Allowing custom integrations to other applications
- **Browser Interface**
A browser based user interface to deliver management functions across the customer's network



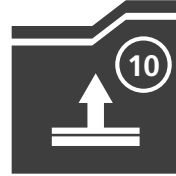
Access Central™ Feature Packs



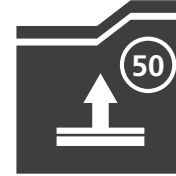
Active Directory Feature Pack
13494/1.00



Token Format Feature Pack
13495/1.00



PAC 212 Support Feature Pack
13492/1.00



Browser Interface Feature Pack
13493/1.00

MANAGEMENT

Software Features

Features	SE Edition	Professional Edition
Hardware Licence Limits		
No. of PAC 500 Channels	X	500
PAC 520/530 support	X	✓
PAC 212 support	Feature Pack	Feature Pack
IP channels support	✓	✓
No. of Direct channels	50	100
No. of Dialup channels	50	750
Over-Air-IP	✓	✓
VPN for Over-Air-IP	✓	✓
No. of 512 controllers on a direct channel	24	24
No. of 512 controllers on an IP channel	24	24
No. of 512 controllers on a dialup channel	4	4
No. of 512 controllers on a 500 channel	X	24
Biometric Reader Support	✓	✓

Software Features

Features	SE Edition	Professional Edition
Feature Licence Limits		
No. of doors	250	2000
Areas	✓	✓
No. of Time Profiles	20	2000
No. of Holiday Profiles	5	200
No. of Access Groups	1000	5000
Event To Action Manager	✓	✓
Area Management	X	✓
No. of Lifts	20	100
CCTV	✓	✓
Time Zones	✓	✓
Card Designer	✓	✓
Access Options	✓	X
Alarm Management	✓	✓
Event Archiving	✓	✓
Personal Access	✓	✓
Area Mode Profiles	X	✓
Door Mode Profiles	✓	✓
Reader Mode Profiles	✓	✓
No. of Muster Points	10	100
Audit Trail	✓	✓
Map Designer	✓	✓
Token Formats	Feature Pack	✓
Visual Verification	✓	✓
Local Anti-Passback	✓	✓
Event Relay	✓	✓



Software Features

Features	SE Edition	Professional Edition
User Licence Limits		
Keys	20000	75000
Keyholders	✓	✓
Operators	25	100
Unused Key Expiry	✓	✓
Guest Access End Dates	✓	✓
System Licence Limits		
Org Units	5	100
Client PCs	5	15
Alarm Workstations	2	8
Web Browser Interface	Feature Pack	✓
Active Directory	Feature Pack	Feature Pack

The application interface allows custom integration to the Access Central platform.
Please contact your sales representative for more information.

EasiNet™ Residential



Specifically designed for residential customers.

The PAC EasiNet™ Residential software is specifically designed for residential customers.

EasiNet Residential software is ideal for sites where housing managers and staff have the constant worry of controlling tenants' access to low rise or high rise blocks of flats, or specific areas. The User Interface (UI) is developed to allow easy management of access control for residents/staff in a residential environment.

EasiNet™ Residential Software

909052909



EasiNet Residential comes with support for

- 200 Doors
- 50 Dial-up Channels
- 50 Direct Channels
- PAC 2100/2200 and Easikey 1000 support

EasiNet™ Residential Professional Edition

909052915



EasiNet Residential Professional comes with support for

- 750 Doors
- 500 Dial-up Channels
- 100 Direct Channels
- 25 Org Units

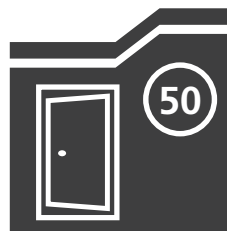
Features & Benefits

- **Key management for the Residential sector**
Residence based records specifically designed for the sector
Staff key records management, their keys and access privilege
- **Wide range of Access Control functionality**
Estate, Block and Landing based access control allowing granular control of access
- **Specifically designed connectivity for remote residential locations to suit customers' needs**
Connectivity can be provided via traditional dialup, OverAirIP or TCP/IP connections
- **Event, Audit trail Management & Reporting**
Events describe system activities
Audit trail track changes to system configuration
Reports to describe what has happened within the system
- **Browser Interface**
A browser based user interface to deliver management functions across the customer's network

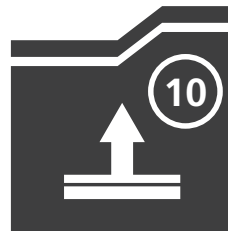
EasiNet™ Residential Software Upgrades



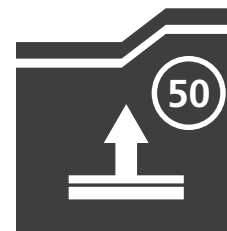
Extra 10 Door pack
13969



Extra 50 Door pack
13970



Extra 10 Dial-up Channels
13967



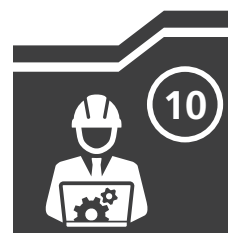
Extra 50 Dial-up Channels
13968



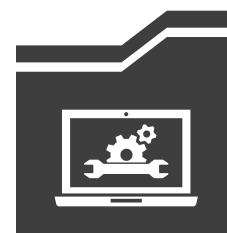
EasiNet Residential 500
Access Group upgrade
13402



EasiNet Residential 5,000
Keyholder upgrade
13086



EasiNet Residential 10
Operators upgrade
13114



Additional Client PC
upgrade
909052910

EasiNet™ Residential



EasiNet™ Residential Software Features

Features	EasiNet™ Residential Edition	EasiNet™ Professional Edition
Feature Licence Limits		
No. of doors	200	750
Areas	✓	✓
User defined Access Groups	X	✓
Time zones	✓	✓
No. of Time Profiles	50	100
No. of Holiday Profiles	2	5
No. of Access Groups	500	2000
Department Access	X	✓
Timed Access	X	✓
Card Designer	✓	✓
Event Archiving	✓	✓
Personal Access	✓	✓
Audit Trail	X	✓
Token Formats	Feature Pack	✓
User Licence Limits		
Keyholders	20000	30000
Operators	10	15
Unused Key Expiry	✓	✓
System Licence Limits		
Org Units	1	25
Client PCs	2	15

EasiNet™ Residential Software Features

Features	EasiNet™ Residential Edition	EasiNet™ Professional Edition
Hardware Licence Limits		
PAC 512 DC controller support	✓	✓
No. of PAC 2100/2200 controllers	250	750
IP channels support	✓	✓
No. of Direct channels	50	100
No. of Dialup channels	50	500
Over-Air-IP	✓	✓
Online Controllers	✓	✓
Data switch support	✓	✓
Biometric Reader Support	✓	✓
EasiKey 1000 Support	✓	✓

PAC Residential Cloud™



Your database is your biggest asset. Protect it.

The PAC Residential Cloud™ allows customers to manage and monitor their access control systems in a secure, modern and cloud based environment.

Whether the management of your system has become a financial burden or a security risk, the Residential Cloud™ is the ideal solution. With easy and flexible remote connectivity and the ultra secure environment, PAC Residential Cloud minimises daily challenges occurring in residential complexes.



Remote System Management

Remote connectivity allows your system engineers and administrators to manage the site from any location or device.



Ultra Secure System Hosting

PAC Residential Cloud looks after your most valuable asset - your database, by keeping it safe at all times.



Cloud Data Backup

PAC Residential Cloud ensures all data can be safely recovered helping to maintain a smooth and uninterrupted system operation.



Flexible Connectivity

Multiple connection methods to the remotely located door controller equipment, including existing infrastructures such as GPRS (Over Air IP), GSM or IP Network.



System Available 24/7

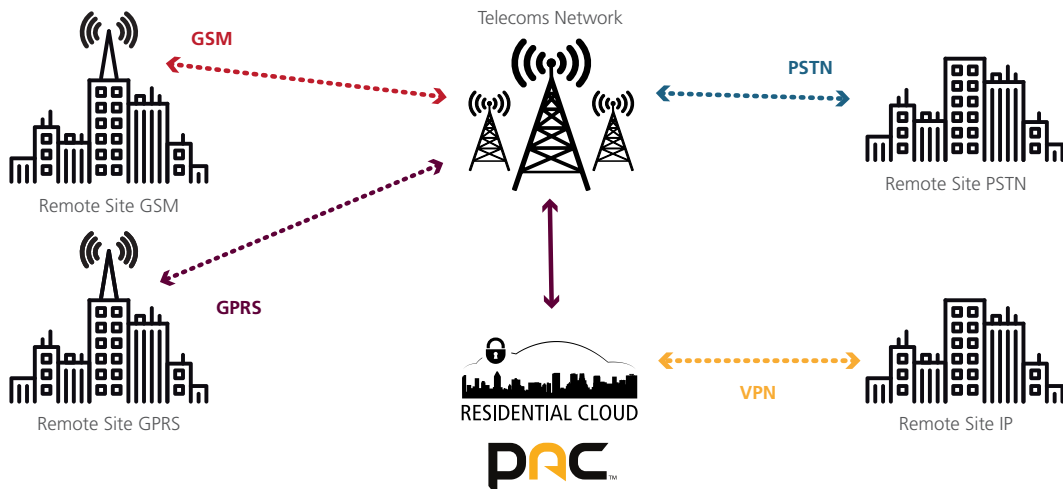
Stay in control of your system with the freedom to employ your own installers to carry out system expansions 24/7.



The System Database is yours

Even if you change your mind at the end of the contract, PAC will hand your data back to you at no additional cost.

Connection Diagram





Features & Benefits



- Your database is your biggest asset in both practical and monetary terms - PAC Residential Cloud keeps it protected and backed-up to ensure smooth operations and avoid financial repercussions.
- When system management is required, you do not need to deploy staff to the site every time they are needed. With remote connectivity all system management tasks can be carried out from any location.
- Flexible system management - browser interface or desktop application.
- Utilising existing communication infrastructures for system implementation saves time and cost - a truly cloud-based system without any complications.
- Event data is crucial to protecting your residents - this will allow you to act fast and ensure the property is safe and sound for its residents.
- Your system can only function with a database - PAC Residential Cloud ensures your information can be easily recovered saving time and money on an otherwise impossible task.
- The System Database is yours even if you change your mind at the end of the contract, PAC will hand your data back to you at no additional cost.

MANAGEMENT

Browser Interface for use on-the-go

- ✓ Manage the day-to-day tasks associated with your system
- ✓ Use on any device: PC, laptop, tablet or mobile phone
- ✓ Easy to navigate and feature-rich
- ✓ Add credentials with the PAC Admin Reader*
- ✓ Add credentials on site
- ✓ All actions included in the standard audit trail
- ✓ Live system events
- ✓ User defined reports



The following services are included for customers with over 100 connections:

Services/Equipment	Included
Free training for end users in Stockport	4 people per year

For further information and quotes on PAC Residential Cloud please contact PAC Customer Services:

customerservices@pacgdx.com or +44 (0)161 406 3400, option 1



PAC Options

A range of accessories and supporting components for ease of installation and management of PAC systems.



PC Builds

66

PAC PC Builds which include a Desktop Administration reader. All PC builds are pre-configured with different softwares.

PAC GS3 Administration and Interface Kits

66

A PAC range of Administration and Interface kits, designed to connect to PAC software in various ways.



Modem Kits

67

A range of Modem Kits to work with specified PAC Controllers, along with Modem options.

PAC Options

PC Builds

Pre-configured PC with Access Central™ (Including Desktop Administration reader 909020115)

40402



- Dell Optiplex Micro PC
- Windows 10 pre-loaded with PAC Access Central™ software
- 500GB Hard Disk
- 4GB RAM
- Including PAC GS3-MT Admit Kit (909020115)

Pre-configured PC with EasiNet™ Residential

(Including Desktop Administration reader 909020115)

40403



- Dell Optiplex Micro PC
- Windows 10 pre-loaded with EasiNet™ Residential software
- 500GB Hard Disk
- 4GB RAM
- Including PAC GS3-MT Admit Kit (909020115)

PAC GS3 Administration and Interface Kits

PAC GS3-MT Admin kit

909020115



Administration Kit for adding credentials in to PAC Access Central or EasiNet Residential Software.

- Includes USB cable for connecting to the PC and software CD with all relevant drivers
- The Admin Reader can also be used for connecting a PAC 512 or PAC 2000 series controller to the PC

Line Driver - PAC 500 Series

909020866



Line driver used for connecting a PAC 512 Door Controller to the PC operating PAC Access Central or EasiNet Residential Software

Note: PAC GS3-MT admin kit will also be required

USB Serial Connection Kit

909020950



A cable assembly and junction box.

Allows a PAC 512 or PAC 2000 series controller to be connected to the PC operating PAC Access Central or EasiNet Residential software via the USB port without the need for an Admin Reader.

Cable for converting a conventional RS232 connection to a USB

480130000



Ideal for existing sites wishing to upgrade the PC when an RS232 port is not available.



Modem Kits

PAC 512 DC GPRS/GSM Modem Kit

909021077



Designed to work with the PAC 512 DC Controller

each kit comes with

- GPRS/GSM Modem
- High Gain GPRS/GSM Aerial
- PAC 512 Serial Cable and fixing kit

PAC 512 DC GPRS/GSM Modem Kit

909021077/1.00



Designed to work with the PAC 512 DC Controller

each kit comes with

- GPRS/GSM Modem
- PAC 512 Serial Cable and fixing kit

PAC GS3 PC Administration GPRS/GSM Modem Kit

909021079



Designed to work with the PAC 512 DC Controller

each kit comes with

- GPRS/GSM Modem
- Standard Aerial
- Serial Cable

GSM/USB Modem PSU

40315



PSTN Modem - Serial Connection

(RS232) 914



Note: If using on a PC with USB connection only p/n 480130000 is also required.

Modem Options

GSM / GPRS Low Profile Modem Aerial	40203
GSM / GPRS Standard Modem Aerial - Magnetic Mounted	40079
GSM / GPRS High Gain Modem Aerial - 10 m	40085
GSM / GPRS High Gain Modem Aerial - 15 m	40316
GSM / GPRS High Gain Modem Aerial - 20 m	40467
GSM to PC Modem Lead - Serial	40082

Accessories

Vandal resistant screw driver for use with 20116, 22116, 20118, 22118

1950





Support Services

At PAC, we value our customers and when you buy from us, we will join you throughout this exciting journey together.

We provide an array of support options to suit your needs and queries from Customer Services to On-site Support and more.

Why Choose PAC?

For over 40 years we have offered market leading, scalable solutions, built on reliability and innovation, proudly manufactured in the UK, and supported by highly skilled UK-based technical and customer services teams that understand our customers' requirements.

You can read more about our company values and our continued commitment to our customers below.



Innovative

- Part of a large organisation with access to global technical excellence.
- New video and AI related solutions recently added to our portfolio.
- Continued research and development of new exciting products.



Reliable

- Lifetime product guarantees for our readers and IDs
- Support for all our products – even those over 20 years old
- Long term customer base



Service Excellence

- We deliver on time
- Experienced tech support and customer services teams ready to help
- Quick resolution to queries



Technical Expertise

- Our Tech Support Team consists of qualified engineers.
- On average, calls to Tech Support team are resolved in under 5 minutes.
- We are accustomed to working in the most demanding environments.



UK Manufactured

- Products are designed and manufactured in UK
- ISO certified manufacturing facility
- Reduced carbon footprint



For further information on who we are, our products and our services, visit our website at www.pacgdx.com



To download product technical information or participate in our E-Learning courses, visit the Knowledge Centre on our website.



If you need any assistance, contact our friendly and experienced Customer Services team at customerservices@pacgdx.com or +44 (0)161 406 3400.

Support Services

Customer Services

The PAC Customer Services Team are committed to providing a first class service. We understand how important it is to handle your day to day requirements with speed and efficiency. Please do not hesitate to contact us if there is anything we can do to help you.

Systems Design Support

Many of our customers need assistance with putting together a system design or meeting a client specification. Our team are fully trained in system design and producing specifications and drawings that help architects, systems specifiers, design consultants and installers.

Technical Support

The PAC Technical Support team are highly skilled in answering any questions you have in relation to our products. We have specialist skills in communication and IT related areas and are able to provide supporting documentation.

Remote Dial-In Support

PAC offer a remote dial-in service which gives you direct access to skilled engineers and enables us to see your system software in a real-time environment. The remote control software and hardware requirements will need to be discussed prior to attending site and involvement from end user IT personnel may be required.

Product Knowledge Database

A searchable Knowledge Base including technical bulletins, manuals and frequently asked questions is available at www.pacgdx.com/support/knowledge-centre.

Training

PAC is committed to training and supporting both the installation engineer and the end user. To this end we provide a full range of training courses for all of our products. Courses have full supporting documentation, include high levels of practical work and may be tailored to suit individual client's needs. We have purpose-built training facilities or can train at customer's premises.

Installer Courses – System Installation, Commissioning and Maintenance Courses

These courses are aimed at qualified installation/commissioning security systems engineers requiring specific knowledge and understanding of PAC access control hardware and administration software. No previous knowledge of PAC product is necessary to attend these courses.

Advanced Courses

Advanced courses are normally 1-day and cover specific hardware/software functionality that is not covered on the installer courses. Attendance of the installer courses is a pre-requisite to any advanced courses.

Tailor Made Courses

Any of the listed Installer Courses may be tailored to suit the needs of an individual installation company. However, to be viable, any course requires a minimum of two attendees.

End User Courses

These courses are aimed at those who administer PAC access control systems. Because each end user employs different hardware/software features, these courses are bespoke and are tailored to the needs of a particular user. No previous knowledge of PAC product is necessary, although attendees are expected to have a fundamental understanding of PC technology and Microsoft® Windows operating systems.

E-Learning

To underpin our technical support and training we have an extensive range of e-learning videos and step-by-step guides that have been designed to provide on the job tuition and instruction for specific product features and operations. These are available at www.pacgdx.com/support/training

Contact

Customer Services

Tel: +44 (0)161 406 3400, option 1
Fax: +44 (0)161 406 8984
Email: customerservices@pacgdx.com

Technical Support

United Kingdom
Tel: +44 (0) 161 406 3400, option 2
Fax: +44 (0) 161 406 8984

International

Tel: +44 (0)161 430 1340
Fax: +44 (0)161 406 8984
Email: support@pacgdx.com

Lines are open Monday – Friday
8.30am to 5.30pm (GMT), excluding UK Public Holidays



Training Courses

PAC GDx is one of the U.K.'s leading manufacturers of access control and door entry systems. We are constantly reminded of the important role that product training plays in maintaining good long-term customer relationships and repeat business. Installation companies do appreciate the benefits of having well trained engineers.

To complement the product training, PAC offer comprehensive support services for the PAC product range. This is for system upgrades, remote or onsite services for commissioning and troubleshooting. These services are available to our installers and dealers and offer a value added benefit to your customer base.

15015 - Installation & commissioning engineer courses

These courses are for installation and commissioning engineers. They have been designed around a flexible training plan that takes into account the range of PAC hardware and software. Common learning objectives are included in the two-day Foundation Principles course. For each of these Modules, trainees will have access to their own PC with door controllers connected. Trainees will install PAC software onto a PC, and will be introduced to all of the primary software functions applicable to the modules they are undertaking.

15008 - Onsite end user operator training

PAC also offer onsite end user operator training and a Product Overview. Product training plays an important part in obtaining the most from your PAC access control system and is invaluable in getting to know the products and in maintaining the system on a day to day basis.

Can't find the course that you require?

If having read through the course options you feel that none of these suit your requirements, bespoke courses can be arranged at our training centre for customers requiring specific training on combinations of PAC products, or specific product features. There must be a minimum of two attendees to make these courses viable.

Please contact our team for further information:

Tel: +44 (0)161 406 3400 Email: customerservices@pacgdx.com

Sales Contact Information

Would you like to know more about our security solutions and the benefits they can bring to you and your customers? Contact a member of our Sales Team below to find out more or to arrange a visit:

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