

# PRO4200

## Professional Series Access Modules

The PRO4200 professional series family of access control modules is designed for high density installations.



The PRO4200 professional series can be managed through WIN-PAK® integrated security suite for more advanced features such as Video integration, advance reporting, rules and photo badging, elevator control, touch-less access and mobile credential management.

Supporting up to 18 doors per enclosure and 34 doors per intelligent controller along with up to 100,000 card capacity, PRO4200 Series provide a combination of small installation footprint and superior cost per door ratio.

The new PRO42IC Intelligent Controller provides I/O support for 2 Doors\*. The PRO42R1 provides I/O support for one card access reader, while the PRO42R2 support two card access readers. Both interface with the intelligent control module (PRO42IC). In the event that communication to the intelligent control module is lost, the card access readers be individually configured to allow entrance based on security needs. This customization allow or a be configured as secured, locked

and unlocked. PRO4200 modules provide latest bi-directional and strong encrypted OSDP communication with the Access Control readers. For legacy and retrofit installations, Wiegand format is still supported.

The PRO42OUT interfaces provide up to 16, Form C, 30 VDC, 2A relay output controls depending if the board is rack or tile-mounted, power fail and panel tamper when tile mounted. Relays may be used for elevator control, status annunciation and for general facility control, such as door monitoring.

The PRO42IN interfaces provide 16 supervised alarm inputs and a dedicated power fail and panel tamper when tile mounted. An analog to digital converter samples the input values and the digitized result is filtered and processed. Filter parameters are configurable for each input point, resulting in the ability to specify a custom End-Of-Line (EOL) resistance value, sensitivity range and timing parameter.

The PRO4200 Series of access modules are designed to accommodate various mounting options. Units can be mounted in a rack configuration (PRO22ENC1, PRO22ENC2 and PRO22E C5) when space is limited, or in a tile-mount configuration (PRO22ENC3).

- The PRO22ENC1 is a wall-mounted enclosure rack unit (See picture)
- The PRO22ENC2 is a 19" rack-mounted enclosure rack unit
- The PRO22ENC5 is a rack unit which fits inside a customer's enclosure

*\* The new PRO42IC Intelligent Controller provides I/O support for up to 2 doors with a maximum of 2 OSDP readers per door or 1 Wiegand reader per door. The PRO42R1 provides I/O support for up to 1 door and the PRO42R2 supports up to 2 doors. The PRO42R1 and PRO42R2 will support a maximum of 2 OSDP readers per door or 1 Wiegand reader per door.*

## FEATURES AND BENEFITS



- Modular design fits a wide variety of applications
- Up to 9 modules, power-supply and battery can be accommodated by the PRO22ENC1, PRO22ENC2 and PRO22ENC5 (no battery) enclosures
- User programmable relay outputs allow for specific control needs
- User programmable alarm inputs offer flexible system configuration and control



- RS485 communication to all modules
- Analog to digital converter technology provides digital filtering and input conditioning
- Dedicated cabinet tamper and power monitor inputs
- Supports the choice of normally open, normally closed, supervised, and non-supervised circuits
- Supports a wide range of reader technologies including OSDP and Wiegand



- System off-line modes customizable per reader include secured access, locked (no access), and unlocked (full-access)
- Supports multiple reader and card formats for maximum flexibility and security options
- Operating modes includes locked, unlocked, secure access, card only, card and PIN, card or PIN and PIN only



- Any combination of 16 downstream I/O or readers modules may be connected to the PRO42IC RS485 ports. 4,000 ft (1,250 m) total bus length per port
- Supports over 50,000 transaction buffer



# SPECIFICATIONS

| MODULE SPECIFICATIONS                 | PRO4200 SERIES SINGLE READER MODULE (PRO42R1)                             | PRO4200 SERIES DUAL READER MODULE (PRO42R2)   |
|---------------------------------------|---|---|
| <b>PORT</b>                           | Reader port 12/24VDC @ 500mA, OSDP; Wiegand; Dt/Clk*                      | 2 Reader port 12/24VDC @ 300mA, OSDP; Wiegand; Dt/Clk*  |
| <b>KEYPAD</b>                         | Keypad multiplexed with card data   |   |
| <b>WIRE SUPPORT</b>                   | Two-wire or one-wire bi-color LED support                                 |   |
| <b>BUZZER SUPPORT</b>                 | Buzzer support only with one-wire LED control                             |   |
| <b>ALARM INPUTS</b>                   | 2 supervised, general purpose alarm inputs with programmable circuit type | 8 supervised, general purpose alarm inputs with programmable circuit type (only 6 supervised inputs available when using PRO22ENC1, PRO22ENC2 and PRO22ENC5 enclosures) |
| <b>OUTPUT RELAYS (DOOR STRIKE(S))</b> | 1 output relay, form C, 5A 40 VDC   | 2 output relay, form C, 2A 30 VDC   |
| <b>OUTPUT RELAYS</b>                  | 1 general purpose output relay, form C, 5A 30 VDC                         | 2 general purpose output relay, form C, 5A 30 VDC   |
| <b>MOUNTING</b>                       | Designed to be tile-mounted using the PRO22ENC4 enclosure                 | N/A   |

## ALARM INPUT PROPERTIES

|                          |   |
|--------------------------|---|
| <b>INPUTS</b>            | Inputs may be assigned to door related functions or general purpose I/O   |
| <b>CIRCUIT TYPE</b>      | Circuit type - normally open, normally closed, non-supervised, supervised (with standard 1K or custom end-of-line resistance 200-10K) |
| <b>LINE CONDITIONING</b> | Line conditioning - programmable sensitive hold time  |

## OUTPUT CONTROL PROPERTIES

|                       |  |
|-----------------------|--|
| <b>OUTPUTS</b>        | Outputs may be assigned to door related functions or general purpose I/O   |
| <b>RELAY RATING</b>   | The relay(s) are rated to handle the inductive loads of door locking devices<br><b>S-4 SUPPRESSOR CABLE TO THE DOOR OPENER</b> |
| <b>CONFIGURABLE</b>   | Configurable as standard (energize to activate) or fail-safe (de-energize to activate)   |
| <b>PULSE TIME</b>     | 1-42,400 seconds, 1-255 for door relays  |
| <b>RS485 PORT</b>     | RS485 port, 4,000 ft (1,250m) total bus length   |
| <b>STANDARD SPEED</b> | 38.4 Kbps  |

| MODULE SPECIFICATIONS | PRO4200 SERIES SIXTEEN RELAY OUTPUT MODULE (PRO42OUT) | PRO4200 SERIES SIXTEEN ALARM INPUT MODULE (PRO42IN) |
|-----------------------|---|---|
|-----------------------|---|---|

|                      |  |  |
|----------------------|--|--|
| <b>ALARM INPUTS</b>  | 2 dedicated (unsupervised) alarm inputs for tamper detection and power loss (tile-mounted only)                    |  |
| <b>ALARM INPUTS</b>  | N/A  | 16 general purpose inputs with programmable circuit type   |
| <b>OUTPUT RELAYS</b> | 12 general purpose output relays, form C, 5A 30 VDC (16 are available when using PRO22ENC3 tile-mounted enclosure) | 2 general purpose, form C, 5A 30 VDC relays (only one available when using PRO22ENC1, PRO22ENC2 and PRO22ENC5) |

## OUTPUT CONTROL PROPERTIES

|                          |   |  |
|--------------------------|---|--|
| <b>OUTPUT</b>            | All 16-relay outputs in the tile-mount configuration (1 rack mount) are available for general purpose I/O | Both relay outputs are available for general purpose I/O             |
| <b>DRY CIRCUIT LOGIC</b> | The 5A relays are rated to handle dry circuit logic (Resistive)   | Both relay outputs are rated to handle dry circuit logic (Resistive) |
| <b>PULSE TIME</b>        | 1-32,400 seconds  |  |
| <b>CONFIGURABLE</b>      | Configurable as standard (energize to activate) or fail-safe (de-energize to activate)                    | N/A  |

## ALARM INPUT PROPERTIES

|                          |   |  |
|--------------------------|---|--|
| <b>INPUTS</b>            | 2 dedicated for tamper detection and power loss | All 16 inputs may be assigned to door related functions or general purpose I/O 2 dedicated for tamper and power loss |
| <b>CIRCUIT TYPE</b>      | N/A   | Circuit type - normally open, normally closed, non-supervised, supervised (with correct EOL)                         |
| <b>LINE CONDITIONING</b> | N/A   | Line conditioning - programmable sensitivity and hold time   |

## COMMUNICATION FEATURES

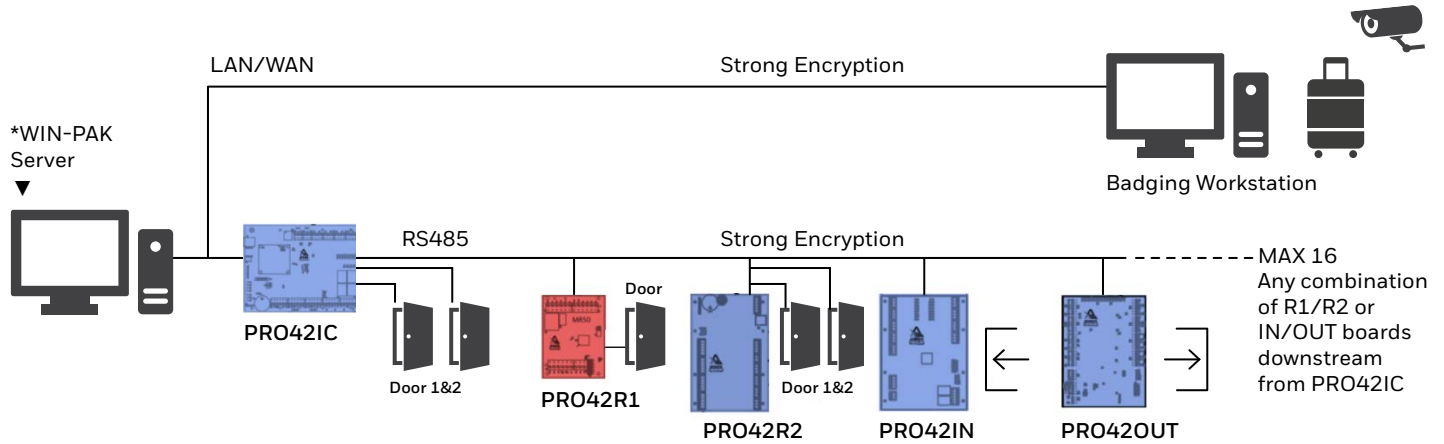
|                     |   |
|---------------------|---|
| <b>MEASUREMENTS</b> | RS485 port, 4,000 ft (1,250m) total bus length per port |
| <b>SPEED</b>        | 38.4 Kbps   |



# BENEFITS

- Anti-passback support – free pass and exempt flags, last area accessed, last reader accessed and time/date of last access
- Modular hardware architecture provides flexibility and expansion capabilities
- Large, local controller database allows access control decisions to be made by controller in real time without the need to communicate to the server
- ADA compliant allowing expanded door times selectable per reader
- Scalable architecture ensures optimal performance with a seamless upgrade path to accommodate future growth beyond its initial installation
- Four-state alarm input circuits - normally opened, normally closed, non-supervised, supervised (w/EOL)
- Rack or tile mounting options available
- Alarm conditioning with programmable sensitivity and hold time
- Selectable reader states include card and PIN, card or PIN, card only, or PIN only
- Power Supply supports 120 VAC
- System off-line modes customizable per reader include secured access, locked (no access), and unlocked (full-access)
- Supports multiple reader and card formats for maximum flexibility and security options
- Supports Wiegand and/or OSDP communication
- Enhanced Cyber Security
- Port based network access control using 802.1X
- Host communications protected by TLS 1.2/1.1 or AES-256/128

# PRO4200 CONFIGURATION



**RED** boards = Mercury Series 3

**BLUE** boards = Honeywell PRO4200 modules

\*WIN-PAK 4.8.2 or higher supports Legacy Mode which includes all feature sets of the PRO3200 Series.

\*Native support in WIN-PAK coming soon (PRO421C On-Board Door support, OSDPV2, TLS1.2).

| MODULE   | READERS            | PRO22ENC1 |         | PRO22ENC3 |         |
|----------|--------------------|-----------|---------|-----------|---------|
|          |                    | INPUTS    | OUTPUTS | INPUTS    | OUTPUTS |
| PRO42R1  | 2 OSDP   1 Wiegand | N/A       | N/A     | 2         | 2       |
| PRO42R2  | 4 OSDP   2 Wiegand | 6         | 4       | 10**      | 6       |
| PRO42OUT | 0                  | 0         | 12      | 2**       | 16      |
| PRO42IN  | 0                  | 16        | 1       | 18**      | 2       |

**\*\*Two are used to monitor Power and Tamper (Dedicated)**

**PRO22ENC1 = 9 Board Capacity/PRO22ENC3 = 2 Board Capacity**



# SPECIFICATIONS

## DIMENSIONS / BOARDS

- **PRO42R1**  
2.75" H x 4.25" W x 1.0" D  
(70mm x 108mm x 25mm)
- **PRO42IC, PRO42R2, PRO42IN, PRO42OUT**  
9.0" H x 5.5" W x 1.0" D  
(230mm x 140mm x 25mm)

## ENCLOSURES

- **PRO22ENC1**  
13.9" H x 17" W x 9" D  
(353 mm x 432mm x 229 mm)
- **PRO22ENC2**  
13.9" H x 18.9" W x 9" D  
(353 mm x 480 mm x 229 mm)
- **PRO22ENC3**  
14" H x 16" W x 4" D  
(356 mm x 406 mm x 102 mm)
- **PRO22ENC4**  
8.37" H x 7.63" W x 7.63" D  
(213 mm x 194 mm x 194 mm)
- **PRO22ENC5**  
9.35" H x 16.85" W x 5.6" D  
(237 mm x 428 mm x 142 mm)

## ENVIRONMENT

- Temperature: 0°C to 49°C\* operational;  
-55°C to 85°C storage
- Humidity: 5 to 85% RHNC

## WIRE REQUIREMENTS

- **Power**  
Twisted pair, 18 AWG
- **Ethernet**  
F(S)TP/CAT7, 300 ft (100m) max
- **RS485**  
22- 24 AWG, 4,000 ft (1,200m) max, two twisted pairs with shield (F(S)TP/CAT7)
- **Alarm Input**  
Twisted pair, 30 ohms max

## ENCLOSURES

- **PRO22ENC1**  
(Wall-mount) Capacity: 9 modules.  
Power supply and battery not included
- **PRO22ENC2**  
(19" Rack-mount) Capacity: 9 modules.  
Power supply and battery not included
- **PRO22ENC3**  
(Tile-mount) Capacity: 2 modules. Power supply and battery included
- **PRO22ENC4**  
(Tile-mount) Capacity: 1 module (PRO42R1 only). Power supply and battery included
- **PRO22ENC5**  
(Cage only for custom enclosures) Capacity: 9 modules. Power supply and battery not included



**PRO42IC**



**PRO42R2**



**PRO42OUT**



**PRO42IN**

## PRO4200 CONTROLLERS

|                 |                                |
|-----------------|--------------------------------|
| <b>PRO42IC</b>  | PRO4200 Intelligent Controller |
| <b>PRO42R1</b>  | PRO4200 single reader module   |
| <b>PRO42R2</b>  | PRO4200 Dual Reader Module     |
| <b>PRO42OUT</b> | PRO4200 16 Relay Output Module |
| <b>PRO42IN</b>  | PRO4200 16 Alarm Input Module  |

## PRO4200 EXPANSION KITS\*

|                   |  |
|-------------------|--|
| <b>PRO42E1D4</b>  | Door Kit: (1) PRO42R2, (2) S-4, and (1) PRO42E1EN    |
| <b>PRO42E1D6</b>  | 6 Door Kit: (2) PRO42R2, (4) S-4, and (1) PRO42E1EN  |
| <b>PRO42E1D10</b> | 10 Door Kit: (4) PRO42R2, (8) S-4, and (1) PRO42E1EN |

## OPTIONAL ACCESSORIES

|                    |  |
|--------------------|--|
| <b>PRO22DCC</b>    | Daisy Chain cable required for PRO22ENC1, PRO22ENC2 and PRO22ENC5                    |
| <b>PRO42PSU120</b> | Rack-mounted power supply for PRO22ENC1, PRO22ENC2 and PRO22ENC5. Requires PRO22BAT1 |
| <b>PRO22BAT1</b>   | Battery, 7AH 12V   |

## NETWORK KITS

|                  |   |
|------------------|---|
| <b>PRO42E1EN</b> | Includes: PRO22ENC1, PRO42IC, PRO42PSU120, PRO22BAT1 and PRO22DCC |
| <b>PRO42E2EN</b> | Includes: PRO22ENC2, PRO42IC, PRO42PSU120, PRO22BAT1 and PRO22DCC |

## PRO-SERIES ENCLOSURES

|                  |  |
|------------------|--|
| <b>PRO22ENC1</b> | (Wall-mount) Capacity: 9 modules. Power supply and battery not included                      |
| <b>PRO22ENC2</b> | (19" Rack-mount) Capacity: 9 modules. Power supply and battery not included                  |
| <b>PRO22ENC3</b> | (Tile-mount) Capacity: 2 modules. Power supply and battery included                          |
| <b>PRO22ENC4</b> | (Tile-mount) Capacity: 2 modules. (PRO42R2 only). Power supply and battery not included      |
| <b>PRO22ENC5</b> | (Cage only for custom enclosures) Capacity: 9 modules. Power supply and battery not included |

## PRO4200 STARTER KIT WITH SOFTWARE

|                    |   |
|--------------------|---|
| <b>PRO42SKD10*</b> | 10 Door Starter Kit (1) PRO42E1D10 with WIN-PAK SE Software |
|--------------------|---|

\* Coming soon

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## For more information

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