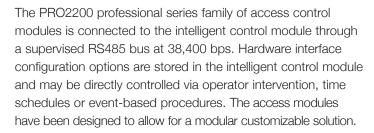


# PRO2200

# **Professional Series Access Modules**



The PRO22R1 provides I/O support for one card access reader, while the PRO22R2 supports two card access readers. Both interface with the intelligent control module (PRO22IC). In the event that communication to the intelligent control module is lost, the card access readers can be individually configured to allow entrance based on security needs. This customization allows for a door to be configured as locked, unlocked, or access only via valid facility code.

The PRO22OUT interfaces with the intelligent control module (PRO22IC) providing up to 12 or 16, Form C, 12 VDC, 2A relay output controls depending if the board is rack or tile-mounted and 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 PRO22IN interfaces with the intelligent control module (PRO22IC) providing 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 PRO2200 Series of access modules are designed to accommodate various mounting options. Units can be mounted in a rack configuration (PRO22ENC1, PRO22ENC2 and PRO22ENC5) when space is limited, or in a tile-mount configuration (PRO22ENC3).

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

# **FEATURES**

- 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 nonsupervised circuits
- Supports a wide range of reader technologies including Wiegand, magnetic stripe, proximity, and keypad
- System off-line modes customizable per reader include facility code access, locked (no access), and unlocked (full access)
- Supports multiple reader and card formats for maximum flexibility and security options

- Operating modes include locked, unlocked, facility code, card only, card and PIN, card or PIN and PIN only
- Any combination of 8 I/O or reader modules may be connected to the PRO22IC RS485 ports
- Alarm circuit type normally open, normally closed, non-supervised, supervised (with correct EOL). Meets requirements for UL294 and CUL
- Any combination of 8 I/0 or readers modules may be connected to the PRO22IC RS485 ports. 4,000 ft (1,250 m) total bus length per port

# **PRO2200**

# **Professional Series Access Modules**

# **SPECIFICATIONS**

	PRO2200 Series Single Reader Module (PRO22R1)	PRO2200 Series Dual Reader Module (PRO22R2)			
Module Specifications	5				
Port	1 reader port - 12 VDC at 50 mA, clock / data or data0 / data1	2 reader ports - 12 VDC at 50 mA, clock / data or data0 / data1			
Keypad	Keypad multiplexed with card data				
Wire Support	Two-wire or one-wire bi-color LED support				
Buzzer Support	Buzzer support only with one-wire LED control				
Alarm Inputs	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)			
Alarm Inputs	1 dedicated alarm input for tamper detection	2 dedicated alarm inputs for tamper detection and power loss			
Output Relays	1 general purpose output relay, form C, 5 A 28 VDC	2 general purpose output relay, form C, 5 A 28 VDC			
Output Relays	1 general purpose output relay, form C, 1 A 28 VDC	4 general purpose output relay, form C, 2 A 28 VDC (only 2 output relays available when using PRO22ENC1, PRO22ENC2 and PRO22ENC5 enclosures)			
Mounting	Designed to be tile-mounted using the PRO22ENC4 enclosure	N/A			
Alarm Input Propertie	s				
Inputs	Inputs may be assigned to door related functions or general purpose I/O				
Circuit Type	Circuit type - normally open, normally closed, non-supervised, supervised (with standard 1K or custom end-of-line resistance 200-10K)				
Line Conditioning	Line conditioning - programmable sensitivity and hold time				
Output Control Properti	es				
Outputs	Outputs may be assigned to door related functions or general purpose I/O				
Relay Rating	The 5 A relay(s) are rated to handle the inductive loads of door locking devices				
Configurable	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)				
Pulse Time	1-32,400 seconds, 1-255 for door relays				
RS485 Port	RS485 port, 4,000 ft (1,250m) total bus length				
Standard Speed	38.4 Kbps				

	PRO2200 Series Sixteen Relay Output Module (PRO22OUT)	PRO2200 Series Sixteen Alarm Input Module (PRO22IN)			
Module Specification	s				
Alarm Inputs	2 dedicated alarm inputs for tamper detection and power loss (tile-mounted only)				
Alarm Inputs	N/A	16 general purpose inputs with programmable circuit type			
Output Relays	12 general purpose output relays, form C, 2 A 30 VDC (16 are available when using PRO22ENC3 tile-mounted enclosure)  2 general purpose, form C, 2 A 30 VDC (only one available when using PRO2 PRO22ENC2 and PRO22ENC)				
Output Control Propert	ies				
Outputs	All 16-relay outputs in the tile-mount configuration (12" rack-mount) are available for general purpose I/O	Both relay outputs are available for general purpose I/O			
Dry Circuit Logic	The 2 A relays are rated to handle dry circuit logic	Both relay outputs are rated to handle dry circuit logic			
Pulse Time	1-32,400 seconds				
Configurable	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)	N/A			
Alarm Input Properties					
Inputs	N/A	All 16 inputs may be assigned to door related functions or general purpose I/O			
Circuit Type	N/A	Circuit type - normally open, normally closed, non-supervised, supervised (with correct EOL)			
Line Conditioning	N/A	Line conditioning - programmable sensitivity and hold time			
Communication Featur	es				
Measurements	RS485 port, 4,000 ft (1,250m) total bus length per port				
Speed	38.4 Kbps				



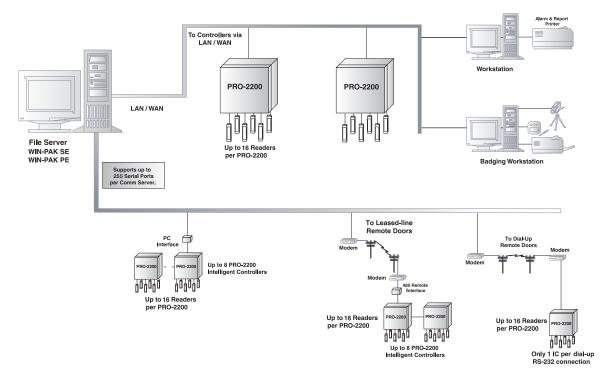
# BENEFITS

- 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
- Auto switching power supply allows 110 / 220 operation with PRO22E1PS
- System off-line modes customizable per reader include facility code access, locked (no access), and unlocked (full-access)
- Supports multiple reader and card formats for maximum flexibility and security options

# PRO2200 CONFIGURATION



		PRO22ENC1		PRO22ENC3			
Module	Readers	Inputs	Outputs	Inputs	Outputs		
PRO22R1	1	N/A	N/A	2	2		
PRO22R2	2	6	4	10**	6		
PRO22OUT	0	0	12	2**	16		
PRO22IN	0	16	1	18**	2		
**Two are used to monitor Power and Tamper							
PRO22ENC1=9 Board Capacity / PRO22ENC3=2 Board Capacity							

# **PRO2200**

# **Professional Series Access Modules**

# **SPECIFICATIONS**

#### **Dimensions:**

- Board: 9.0" H x 5.5" W x 1.0" D (22.9 cm H x 14 cm W x 2.5 cm D)
- PRO22ENC1: 13.9" H x 17" W x 9" D (35.3 cm H x 43.2 cm W x 22.9 cm D)
- PRO22ENC2: 13.9" H x 18.9" W x
   9" D (35.3 cm H x 48 cm W x
   22.9 cm D)
- PRO22ENC3: 14" H x 16" W x 4" D (35.6 cm H x 40.6 cm W x 10.2 cm D)
- PRO22ENC4: 8.37" H x 7.63" W x 7.63 D (21.28 cm H x 19.4 cm W x 19.4 cm D)
- PRO22ENC5: 9.35" H x 16.85" W x 5.6"
   D (23.7 cm H x 42.8 cm W x 14.2 cm D)

#### **Environment:**

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

### Wire Requirements:

- Power twisted pair, 18 AWG
- RS485 24 AWG, 4,000 ft (1,200m) max, two twisted pairs with shield (120 ohms, 23 pF, Belden 9842 or equiv)
- RS-232 24 AWG, 25 ft (7.6m) max
- 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 (PRO22R1 only). Power supply and battery included
- PRO22ENC5 (Cage only for custom enclosures) Capacity: 9 modules.
   Power supply and battery not included

# **ORDERING**

# **PRO2200 Controllers**

PRO22IC
PRO2200 Intelligent Controller
PRO22R1
PRO2200 Single Reader Module
PRO22R2
PRO2200 Dual Reader Module
PRO22OUT
PRO22IN
PRO22IN
PRO2200 16 Alarm Input Module
PRO22EN
PRO2200 Network Interface Module

## **PRO-Series Enclosures**

PRO22ENC1 (Wall-mount) Capacity: 9 modules.
Power supply and battery not included
(19" Rack-mount) Capacity: 9 modules.
Power supply and battery not included
(Tile-mount) Capacity: 2 modules.

PRO22ENC4 Prover supply and battery included (Tile-mount) Capacity: 1 module (PRO22R1 only). Power supply and battery included

PRO22ENC5 (Cage only for custom enclosures)
Capacity: 9 modules. Power supply and battery not included

PRO2200 Starter Kit with Software

**PRO22SKD8** 8 Door Starter Kit with WIN-PAK SE

Software, PRO22IC Controller,

(4) PRO22R2 Reader Boards, Enclosure, Power Supply and Ethernet Module

## **PRO2200 Expansion Kits**

PRO22E1D2 2 Door Rack-Mount Kit with PRO22IC,

(1) PRO22R2, Power Supply, Ethernet Module

PRO22E1D4 4 Door Rack-Mount Kit with PRO22IC,

(2) PRO22R2, Power Supply, Ethernet Module

PRO22E1D8 8 Door Rack-Mount Kit with PRO22IC,

(4) PRO22R2, Power Supply, Ethernet Module

### **Optional Accessories**

**PRO22DCC** Daisy Chain cable required for PRO22ENC1,

PRO22ENC2 and PRO22ENC5

**PRO22E1PS** 4 A rack-mounted power supply with battery

backup required for PRO22ENC1, PRO22ENC2 and PRO22ENC5

PRO22M4 4 MB Memory Expansion Module

**Hardwired Kits** 

PRO22E1IC Includes: PRO22ENC1, PRO22IC,

PRO22E1PS, PRO22BAT1 and PRO22DCC

PRO22E2IC Includes: PRO22ENC2, PRO22IC,

PRO22E1PS, PRO22BAT1 and PRO22DCC

**Network Kits** 

PRO22E2EN

PRO22E1EN Includes: PRO22ENC1, PRO22IC, PRO22EN,

PRO22E1PS, PRO22BAT1 and PRO22DCC Includes: PRO22ENC2, PRO22IC, PRO22EN,

PRO22E1PS, PRO22BAT1 and PRO22DCC

For more information: www.honeywellaccess.com

## **Honeywell Security**

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