

PRO2200

Professional Series Controller



The PRO2200 professional series controller is an advanced access control panel capable of providing solutions where installation space is at a premium. Designed to fit in tight spaces, the PRO2200 with its rack-mount design provides high-density installations for up to 16 doors in a small space. The rack-mount design makes it ideal for applications where 8 or more doors are needed. The 2-door module allows users to expand the system or add relay and input modules in the same enclosure to expand the system to meet your customers' needs.

The PRO2200 (PRO22IC) main controller board is designed to operate off-line, making access control decisions independently from a PC or other controlling device. The PRO2200 panel can also be connected to a host computer for system configuration, alarm monitoring and direct control. Connectivity to the host computer is accomplished via a TCP/IP add-on module, serial (RS232 or RS485) communication or dial-up modem.

The PRO22IC supports any combination of up to 8 I/O or reader boards to monitor alarm input points, relay output points and access control reader interface points. By offering a modular design, the system can be tailored to meet a wide range of applications, while optimizing cost and mounting space.

The standard PRO22IC accommodates a card database of 20,000 cards, and a standard transaction buffer of 5,000 transactions. The memory expansion module (PRO22M4) allows for a card database of 50,000 cards and a transaction buffer capable of storing 35,000 transactions.

The PRO22IC is designed with various mounting options available. Units can be mounted in a rack configuration (PRO22ENC1, PRO22ENC2 and PRO22ENC5) when space is limited, or in a tile-mount configuration (PRO22ENC3).

FEATURES

- Up to 12 intervals per time zone where each interval is a start time, stop time and day map. The day map indicates the day of the week or holiday
- 255 possible holidays are defined by a starting date and duration
- Automatic calculation of leap-year and daylight savings
- 9-digit (32-bit) user ID standard / 15-digit maximum
- Option to include or exclude fields during database configuration to maximize memory usage
- Activation and deactivation dates by card
- Up to 32 access levels per card or individual time zones per readers
- Personal Identification Number (PIN) with up to 8 digits
- Operating modes include locked, unlocked, facility code, card only, card and PIN, card or PIN and PIN only
- Strike modes include fail-safe and fail-secure
- Up to eight card formats per reader
- Entire card bit-stream reported with invalid facility code or invalid card format
- Configurable as standard, entry delay latching, entry delay non-latching and exit delay
- Anti-passback support - free pass and exempt flags, last area accessed, last reader accessed and time /date of last access
- Configurable as standard (energize to activate) or fail-safe (de-energize to activate)
- Pulse control: single pulse (up to 24 hours) or repeating pulses (on/off in 0.1 second increments, up to 255 times)
- Any combination of 8 I/O or reader modules may be connected to the PRO22IC RS485 ports. 4,000 ft (1,250m) total bus length per port

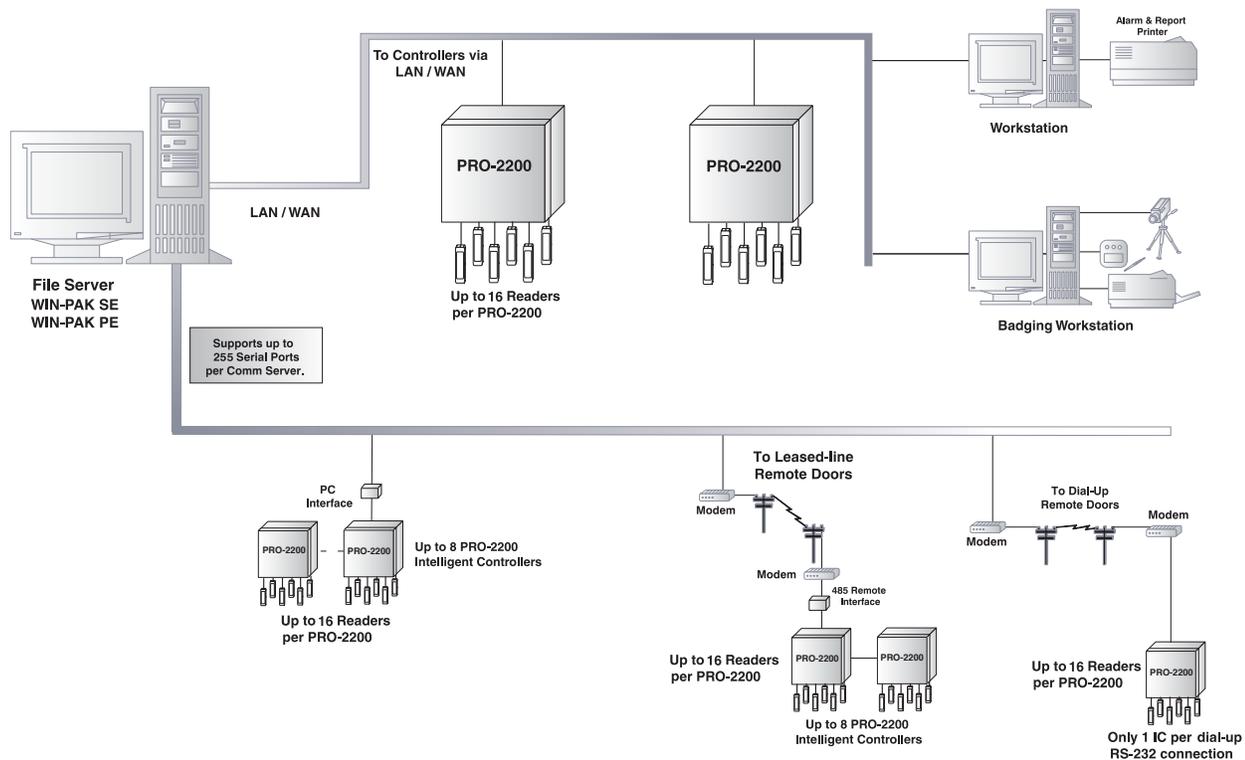
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BENEFITS

- True 32-bit microprocessor provides fast transaction processing for the most demanding network applications
- Modular hardware architecture provides flexibility and expansion capabilities
- Supports multiple reader and card formats for maximum flexibility
- Large, local controller database allows access control decisions to be made by controller in real time without the need to communicate to the server
- Scalable architecture ensures optimal performance with a seamless upgrade path to accommodate future growth
- Seamless optional support for TCP/IP protocols to allow intelligent controller(s) to tap into a LAN or WAN connectivity
- Scalable memory option is cost effective from small to very large system applications
- Multiple communication methods provide redundant paths for more robust system connectivity
- Supervised communication and lithium battery backup ensures system reliability
- System offline modes customizable per reader include facility code access, locked (no access), and unlocked (full access)

PRO2200 CONFIGURATION



SPECIFICATIONS

Database:

- Cardholder capacity: 20,000 standard, 50,000 with memory expansion
- Transaction storage: 5,000 standard, 35,000 with memory expansion
- Flash programming for firmware revision updates
- Access codes: Unlimited
- Holidays: Unlimited
- Time codes: 255
- Card reader formats: 8 per reader
- Credential facility codes: 8
- Elevator support: 128 floors
- Dedicated tamper alarm
- Dedicated power fail alarm
- Real time clock:
 - Geographic time zone support
 - Daylight Saving Time
 - Leap year support
 - 4-bit parallel accurate to 50 ppm
- Precision access groups/levels
- Multiple access groups/levels

Communication Modules:

- Primary communication support:
 - RS232 - RS485
 - Dial-up modem - Ethernet (TCP/IP)
- Communication speed: 38.4 Kbps
- Automatic dial back:
 - Dial-back on alarm condition
 - Dial-back on transaction buffer capacity reached
 - Dial-back on primary power loss
- Download functionality:
 - System functional during system download: Yes
 - System functional during credential download: Yes

Access Modules:

- 8 total devices available per controller
- Access modules available:
 - Single reader module (PRO22R1)
 - Dual reader module (PRO22R2)
 - 16 relay output module (PRO22OUT)
 - 16 alarm input module (PRO22IN)
- Module connectivity via RS485 protocol (4000 feet)

Operational Functionality:

- Duress detection
- Operational modes:
 - Card only - PIN only
 - Card or PIN - Card and PIN
 - Facility code only
- Maximum PIN size: 8 digit
- Door object support
- Threat level support: 100 levels
- Two person access rule
- Offline modes (selectable per reader):
 - Facility code access
 - Locked (no access)
 - Unlocked (free access)
- Anti-Passback support:
 - While preventing access (hard)
 - While allowing access (soft)
- Transaction prioritization: 99 levels

Enclosures:

- PRO22ENC1 (Wall-mount) Capacity: 9 modules. Power supply & battery not included
- PRO22ENC2 (19" Rack-mount) Capacity: 9 modules. Power supply & battery not included
- PRO22ENC3 (Tile-mount) Capacity: 2 modules. Power supply & battery included

- PRO22ENC4 (Tile-mount) Capacity: 1 module (PRO22R1 only). Power supply & battery included
- PRO22ENC5 (Cage only for custom enclosures) Capacity: 9 modules. Power supply & battery not included

Dimensions:

- Board: 9.0" H x 5.5" W x 1.0" D (22.86 cm H x 13.97 cm W x 2.54 cm D)
- PRO22ENC1: 13.9" H x 17" W x 9" D (35.3 cm H x 43.18 cm W x 22.86 cm D)
- PRO22ENC2: 13.9" H x 18.9" W x 9" D (35.3 cm H x 48 cm W x 22.86 cm D)
- PRO22ENC3: 14" H x 16" W x 4" D (35.56 cm H x 40.64 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 (23.74 cm H x 42.79 cm W x 14.22 cm D)

Environment:

- Temperature: 0°C to 70°C operational; -55°C to 85°C storage
- Humidity: 0 to 95% RHNC

Wire Requirements:

- Power - twisted pair, 18 AWG
- RS485 - 24 AWG, 4,000 ft (1,200m) max, two twisted pairs with shield (120 W, 23 pF, Belden 9842 or equiv)
- RS232 - 24AWG, 25 ft (7.6 m) max
- Alarm input - twisted pair, 30 ohms max

RECOMMENDED COMPONENTS

Controllers:

- PRO2200 Intelligent Controller (PRO22IC)
- PRO2200 Single Reader Module (PRO22R1)
- PRO2200 Dual Reader Module (PRO22R2)
- PRO2200 16 Relay Output Module (PRO22OUT)†
- PRO2200 16 Alarm Input Module (PRO22IN)

† Only 12 relay outputs are available when using the PRO22ENC1, PRO22ENC2 and PRO22ENC5 enclosure

Communication Devices:

- Ethernet daughter board (PRO22EN) for TCP/IP communication
- RS232 to RS485 single port converter (PRO22CVT1)
- PRO2200 power/communication daisy chain harness (PRO22DCC) for the PRO22ENC1, PRO22ENC2 and PRO22ENC5

PRO2200

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ORDERING

PRO2200 Controllers

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

PRO-Series Enclosures

PRO22ENC1	(Wall-mount) Capacity: 9 modules. Power supply & battery not included
PRO22ENC2	(19" Rack-mount) Capacity: 9 modules. Power supply & battery not included
PRO22ENC3	(Tile-mount) Capacity: 2 modules. Power supply & battery included
PRO22ENC4	(Tile-mount) Capacity: 1 module (PRO22R1 only). Power supply & battery included
PRO22ENC5	(Cage only for custom enclosures) Capacity: 9 modules. Power supply & 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
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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

Communications

PRO22EN	Ethernet daughter board for TCP/IP communication
PRO22CVT1	RS232 to RS485 single port converter
PRO22DCC	PRO2200 power/communication daisy chain harness for PRO22ENC1, PRO22ENC2 & PRO22ENC5

Hardwired Kits

PRO22E1IC	Includes: PRO22ENC1, PRO22IC, PRO22E1PS, PRO22BAT1 & PRO22DCC
PRO22E2IC	Includes: PRO22ENC2, PRO22IC, PRO22E1PS, PRO22BAT1 & PRO22DCC

Network Kits

PRO22E1EN	Includes: PRO22ENC1, PRO22IC, PRO22EN, PRO22E1PS, PRO22BAT1 & PRO22DCC
PRO22E2EN	Includes: PRO22ENC2, PRO22IC, PRO22EN, PRO22E1PS, PRO22BAT1 & PRO22DCC

For more information: www.honeywellaccess.com

Honeywell Security

Honeywell
2700 Blankenbaker Pkwy, Suite 150
Louisville, KY 40299
1.800.323.4576
www.honeywell.com

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