



# PRO4200 Professional Series Access Modules

## Overview

The Honeywell PRO4200 Professional Series family of access control modules is meticulously engineered for high-density installations. This series effectively aggregates access control and event data from connected devices, seamlessly relaying this information to the Elements security management system, enabling centralized system management.

Designed for versatility, the PRO4200 panel accommodates up to 18 doors per enclosure. It also supports any combination of 31 downstream SIO, which are connected via RS485. This flexibility ensures that the PRO4200 is highly adaptable to various installation needs.

In terms of security, the PRO4200 modules utilize robust, encrypted OSDP communication protocols with access control readers. For legacy systems and retrofits, the traditional Wiegand format communication is supported, ensuring broad compatibility across various installations.

The PRO4200 series of access modules are carefully designed to permit various mounting configurations, offering options for rack mounting (using PRO22ENC1 and PRO22ENC2) when space is constrained, or utilizing tile-mount configurations (PRO22ENC3) for more flexibility.

The PRO42IN interface enhances security management by offering 16 supervised alarm inputs, along with dedicated monitoring for power failure and panel tamper conditions when mounted in tile configuration. An advanced Analog to Digital (ADC) converter samples input values, facilitating filtered and processed outcome data.

Furthermore, the PRO42OUT interface provides up to 16 Form C, 30VDC, 2A relay output controls, designed with adaptability in mind—offering options for rack or tile-mounted configurations, as well as features for power failure and panel tamper when tile mounted. These relays can be integral to elevator control, status annunciation, and general facility control tasks, such as door monitoring.

The PRO42IC Intelligent Controller is crucial for operational flexibility and offers I/O support for 2 doors. The PRO42R1 module caters to one card access reader, while the PRO42R2B supports two card access readers: both module types work in conjunction with the Intelligent Control Module (PRO42IC).

## Key Features

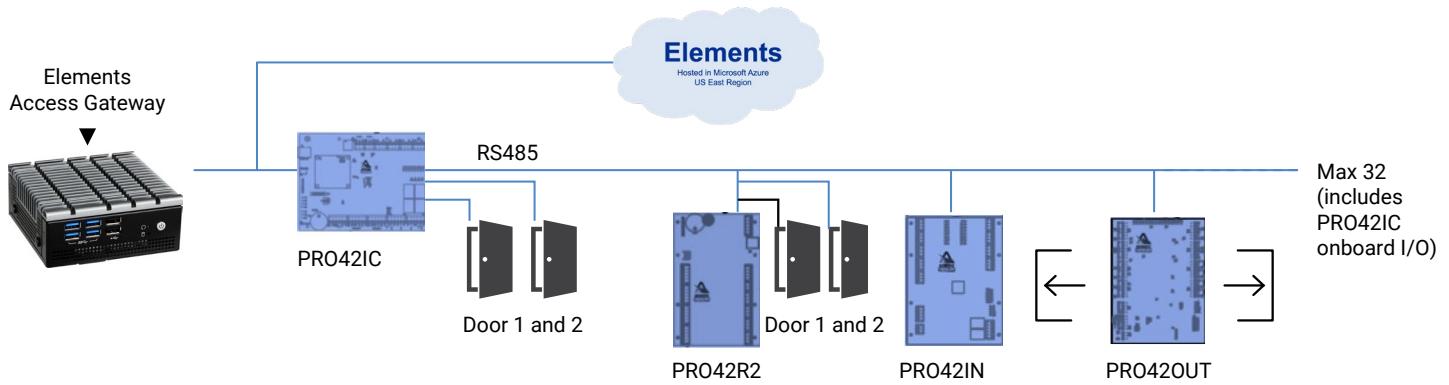
- **Modular Design:** The versatile modular structure accommodates a wide range of applications
- **Capacity:** The PRO22ENC1 and PRO22ENC2 can support up to 9 modules, power supply, and battery (no battery enclosures included)
- **RS485 Communication:** A reliable RS485 communication protocol supports all modules
- **Reader Support:** Compatibility with Wiegand and/or OSDP communication, along with advanced keypad reader technologies
- **Expansion Capability:** Allows any combination of 31 PRO42 downstream I/O to be connected to the PRO42IC RS485 port
- **Transaction Management:** Supports an extensive transaction buffer of over 50,000 records
- **Secure Communications:** Host communications are protected using TLS 1.2/1.1 standards



# Specifications – PRO4200 Professional Series Access Modules

Module Specifications	PRO4200 Series Single Reader Module (PRO42R1)	PRO4200 Series Dual Reader Module (PRO42R2/PRO42R2B)
Port	Reader port 12/24VDC @ 500mA, OSDP; Wiegand; Date / Clock	2 Reader port 12/24VDC @ 300mA, OSDP; Wiegand; Date / Clock
Keypad	Keypad multiplexed with card data	Keypad multiplexed with card data
Wire Support	Two-wire or one-wire bi-color LED support	Two-wire or one-wire bi-color LED support
Buzzer Support	Buzzer support only with one-wire LED control	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 enclosures)
Output Relays (Door Strike(s))	1 output relay, form C, 5A 40 VDC	2 output relay, form C, 2A 30 VDC
Output Relays	1 general purpose output relay, form C, 5A 30 VDC	2 general purpose output relay, form C, 5A 30 VDC
Mounting	Designed to be tile-mounted	N/A
Alarm Input Properties		
Inputs	Inputs may be assigned to door related functions or general purpose I/O	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 Ω)	Circuit type - normally open, normally closed, non-supervised, supervised (with standard 1K or custom end-of-line resistance 200-10K Ω)
Output Control Properties		
Outputs	Outputs may be assigned to door related functions or general purpose I/O	Outputs may be assigned to door related functions or general purpose I/O
Relay Rating	The relay(s) are rated to handle the inductive loads of door locking devices S-4 suppressor cable to the door opener	The relay(s) are rated to handle the inductive loads of door locking devices S-4 suppressor cable to the door opener
Configurable	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)
Pulse Time	1-42,400 seconds, 1-255 for door relays	1-42,400 seconds, 1-255 for door relays
RS485 Port	RS485 port, 4,000 ft (1,250m) total bus length	RS485 port, 4,000 ft (1,250m) total bus length
Standard Speed	38.4 Kbps	38.4 Kbps
Module Specifications		
PRO4200 Series Sixteen Relay Output Module (PRO42OUT)	PRO4200 Series Sixteen Alarm Input Module (PRO42IN)	
Alarm Inputs	2 dedicated (unsupervised) alarm inputs for tamper detection and power loss (tile-mounted only)	2 dedicated (unsupervised) 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, 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)
Output Control Properties		
Output	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
Dry Circuit Logic	The 5A relays are rated to handle dry circuit logic (Resistive)	Both relay outputs are rated to handle dry circuit logic (Resistive)
Pulse Time	1-32,400 seconds	1-32,400 seconds
Configurable	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)	N/A
Alarm Input Properties		
Inputs	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
Circuit Type	N/A	Circuit type - normally open, normally closed, non-supervised, supervised (with correct EOL)
Communication Features		
Measurements	RS485 port, 4,000 ft (1,250m) total bus length per port	RS485 port, 4,000 ft (1,250m) total bus length per port
Speed	38.4 Kbps	38.4 Kbps

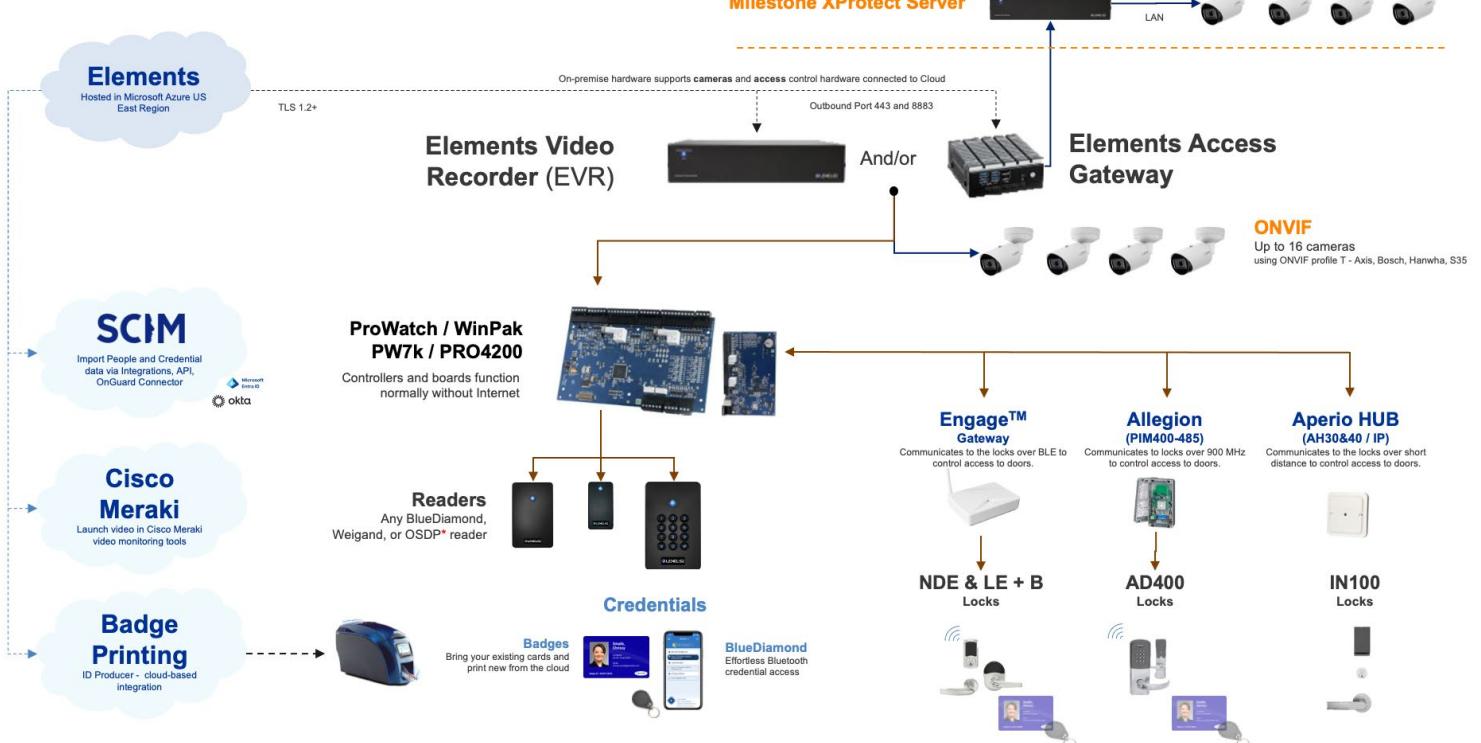
# Specifications – PRO4200 Professional Series Access Modules



Module	Readers	PRO22ENC1		PRO22ENC3	
		Inputs	Outputs	Inputs	Outputs
PRO42R1	2 OSDP   1 Wiegand	N/A	N/A	2	2
PRO42R2/R2B	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

## Elements Ecosystem



# Specifications

	PRO42R1	PRO42IC, PRO42R2B, PRO42IN, PRO42OUT	
Dimensions / Boards	2.75" H x 4.25" W x 1.0" D (70mm x 108mm 25mm)	9.0" H x 5.5" W x 1.0" D (230mm x 140mm x 25mm)	
	PRO22ENC1	PRO22ENC2	PRO22ENC3
Dimensions / Enclosures	13.9" H x 17" W x 9" D (353 mm x 432mm x 229 mm)	13.9" H x 18.9" W x 9" D (353 mm x 480 mm x 229 mm)	14" H x 16" W x 4" D (356 mm x 406 mm x 102 mm)
Environment			
Temperature	0°C to 49°C* operational; -55°C to 85°C storage	0°C to 49°C* operational; -55°C to 85°C storage	0°C to 49°C* operational; -55°C to 85°C storage
Humidity	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC
Wire Requirements			
Power	Twisted pair, 18 AWG	Twisted pair, 18 AWG	Twisted pair, 18 AWG
Ethernet	F(S)TP/CAT7, 300 ft (100m) max	F(S)TP/CAT7, 300 ft (100m) max	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)	22-24 AWG, 4,000 ft (1,200m) max, two twisted pairs with shield (F(S)TP/CAT7)	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	Twisted pair, 30 ohms max	Twisted pair, 30 ohms max



**PRO42IC**



**PRO42R2/R2B**



**PRO42OUT**



**PRO42IN**

## PRO4200 Controllers

PRO42IC	PRO4200 Intelligent Controller
PRO42R1	PRO4200 Single Reader module
PRO42R2B	PRO4200 Dual Reader Module
PRO42OUT	PRO4200 16 Relay Output Module
PRO42IN	PRO4200 16 Alarm Input Module

## PRO-Series 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
	same as last line above

## PRO4200 Expansion Kits

PRO42E1D4	Door Kit: (1) PRO42R2B, (2) S-4, and (1) PRO42E1EN
PRO42E1D6	6 Door Kit: (2) PRO42R2B, (4) S-4, and (1) PRO42E1EN
PRO42E1D10	10 Door Kit: (4) PRO42R2B, (8) S-4, and (1) PRO42E1EN

## Optional Accessories

PRO22DCC	Daisy Chain cable required for PRO22ENC1, PRO22ENC2
PRO42PSU120	Rack-mounted power supply for PRO22ENC1, PRO22ENC2 Requires MPA2BAT7
MPA2BAT7	Battery, 7AH 12V

## Network Kits

PRO42E1EN	Includes: PRO22ENC1, PRO42IC, PRO42PSU120, MPA2BAT7 and PRO22DCC
PRO42E2EN	Includes: PRO22ENC2, PRO42IC, PRO42PSU120, MPA2BAT7 and PRO22DCC



For more information, please visit [lenels2.com](http://lenels2.com).

Specifications subject to change without notice.

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