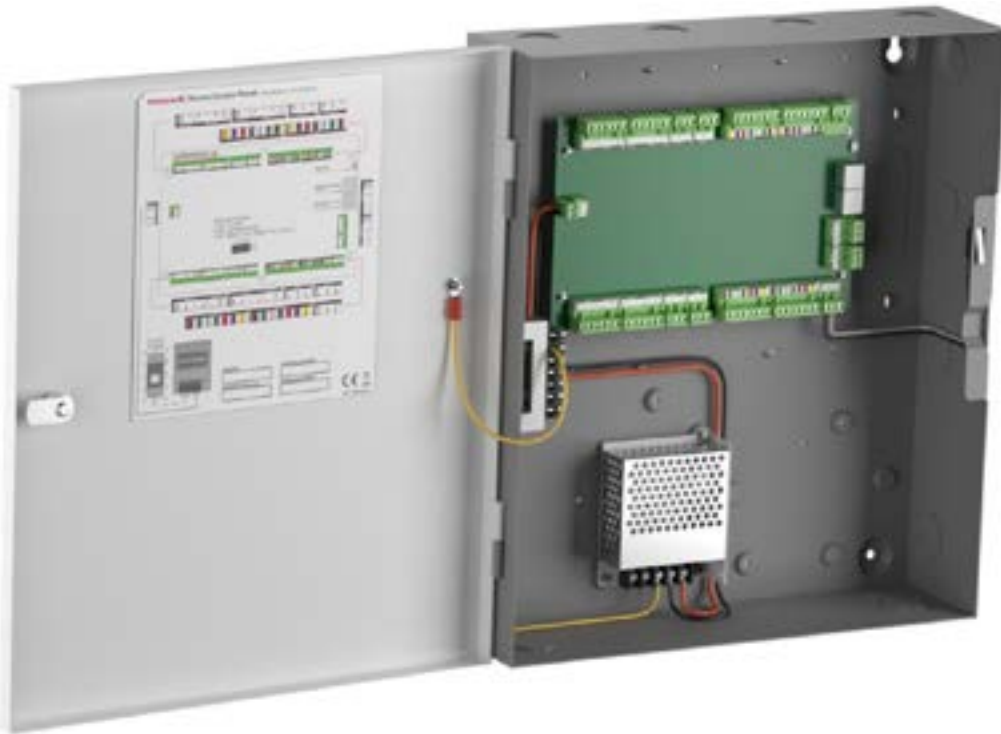# PRO4000

4-door Intelligent Controller

PRO4000 is an advanced access control panel capable of providing solutions for medium to large applications which is working under WINPAK® platform

The PRO4000 adopts 32-bit CPU structure and embedded Linux operating system, which is powerful and flexible; cardholder and event data are stored in the onboard flash memory, which can be stored for a long time even after power failure.

The PRO4000 provides complete logic for four doors, each door includes a card reader interface, an independent electric lock output control, an auxiliary relay output control, and two supervised inputs for door status signals and exit request signals, The supervised input supports four-state
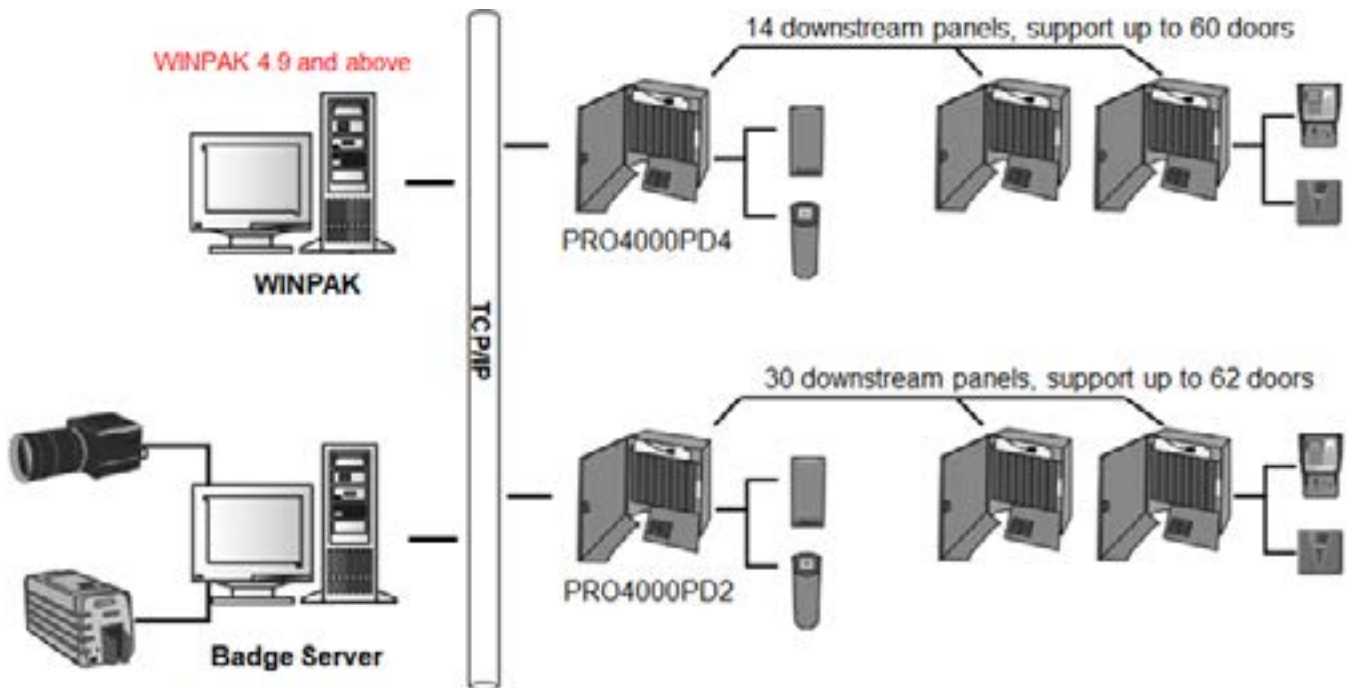
detection. In addition, the controller also provides an independent detection input for enclosure tamper signals and external AC power loss signals.

The PRO4000 is designed to operate off-line, making access control decisions independently from a PC or other controlling device. It can also be connected to a host computer for system configuration, alarm monitoring and direct control.

Connectivity to the host computer is accomplished via TCP/IP network connection.

The PRO4000 combines intelligent controller and reader interface into one complete unit. It connects for four readers via Wiegand controlling four doors. The controller can support up to 60 doors via RS485 multi-drop communication where 14 downstream controllers are connected to the gateway controller. This architecture can reduce the usage on LANs by using only one TCP/IP address to 60 doors.

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APPLICATION

TECHNICAL SPECIFICATIONS

	PRO4000PD4	PRO4000PD2

PLATFORM	
Processor	ARM9, 600MHz
Operating System	Linux

DATABASE	
Cardholder Capacity	100,000
Event Capacity	100,000
Access Level	128
Holiday	255
Time Zone	127
Card Format	128
Credential Facility	8
Real Time Clock	Geographic time zone support and leap year support
Site Code	8

BASIC

Anti-Passback	Local/Global/Forgiveness
Authentication	card only / pin only / card + pin / card or pin
Firmware upgrade	Batch firmware upgrade for both host and slave panels

PANEL

Door	4	2
Reader	4 x (LED/D0/D1/GND/VCC/TAMP/BUZ) D0 / D1: Wiegand, Maximum distance of 150m LED / BUZ: Open-drain Output VCC: 12VDC@0.5A power drive capability TAMP: Supervised Input, 4-status (normal/alarm/cut/short)	2 x (LED/D0/D1/GND/VCC/TAMP/BUZ) D0 / D1: Wiegand, Maximum distance of 150m LED / BUZ: Open-drain Output VCC: 12VDC@0.5A power drive capability TAMP: Supervised Input, 4-status (normal/alarm/cut/short)
Lock Control	4 x Form Y (30VDC@5A Load capacity)	2 x Form Y (30VDC@5A Load capacity)
Auxiliary Control	4 x Form C (30VDC@2A Load capacity)	2 x Form C (30VDC@2A Load capacity)
Door Contact	4 x Supervised Input, 4-status (normal/alarm/cut/short)	2 x Supervised Input, 4-status (normal/alarm/cut/short)
Door Egress	4 x Supervised Input, 4-status (normal/alarm/cut/short)	2 x Supervised Input, 4-status (normal/alarm/cut/short)
Enclosure Tamper	1 x dry-contact input	
AC Power Loss	1 x dry-contact input	
Downstream Bus	1 x RS485, on-board terminal resistor and switch	
USB	1 x USB Micro, reserve purpose	
Ethernet	1 x RJ45, 10/100Mb	
Power	1 x 12VDC less than < 1A (not including reader and Lock)	

ENCLOSURE & POWER

Switch Supply (Panel)	100~240VAC Input, 47~63Hz, 12VDC@3A	N/A	100~240VAC Input, 47~63Hz, 12VDC@3A	N/A
Circuit Breaker	Reserved Space	N/A	Reserved Space	N/A
Switch Supply (Lock)	Reserved Space (Shared with Battery)	N/A	Reserved Space (Shared with Battery)	N/A
Battery	Reserved Space (Shared with Switch supply Lock)	N/A	Reserved Space (Shared with Switch supply Lock)	N/A

ENVIRONMENT

Working Temp.	-10ºC ~ 55ºC			
Working Humidity	0% ~ 90%, non-condensing			
Dimensions	410 mm (L) x 360 mm (W) x 104mm (H)	229 mm (L) x 144 mm (W)	410 mm (L) x 360 mm (W) x 104mm (H)	229 mm (L) x 144 mm (W)
Weight	5.9kg	0.5 kg	5.8Kg	0.41 kg

CERTIFICATION

	CE, UAE RoHS

ORDERING

PART NUMBER	DESCRIPTION
PRO4000PD4	PRO4000 4-door controller PCBA, 12VDC
PRO4000PD2	PRO4000 2-door controller PCBA, 12VDC

HCS-ACS-PRO4000 | 1 | 11/23

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