

ACS PRO OSDP & WIEGAND

The Honeywell ACS PRO controller provides intelligent, flexible, and scalable solutions with OSDP and Wiegand readers



The ACS PRO system enables users to securely manage their system in conjunction with the dedicated access control software IQ-MultiAccess. The ACS PRO controller gives you all the benefits of traditional access control, such as helping secure doors, manage employee access and manage sites remotely.

With the introduction of reader interfaces with OSDP and Wiegand protocol, ACS PRO complies with most industry standard reader connectivity protocols, opening up the opportunity to connect third-party readers and applications, next to the ACS PRO's secure and popular standard reader applications. This allows ACS PRO to meet the need for solutions such as long range and license plate recognition readers.

With the additional interfaces, ACS PRO provides a mixed reader protocol solution to various readers and card solutions at the same time. Simultaneously, card holders are allowed to have up to 3 different card numbers in the system, guaranteeing e.g. Anti Pass Back solutions for the card holder.

OSDP V2 secure connectivity on all four RS-485 interfaces allow ACS PRO to securely connect up to 32 OSDP readers. Wiegand connectivity on the controller reader ports allows ACS PRO to connect with up to four Wiegand readers. This reader flexibility allows ACS PRO to be fitted in almost all access control solutions with various reader applications.

The ACS PRO has been developed with an installer-friendly design that easily adapts to existing IT infrastructure and methods, reducing installation and support costs. So as your system grows, ACS PRO grows with you.

FEATURES AND BENEFITS



INCREASED PRODUCTIVITY

Multi-site access management for global credentials is made easy with IQ-MultiAccess, including visitor management

In multi-site installations with various reader types, the cards can be kept for regulated and paced migration to new card technologies



FASTER INSTALLATION

No need for Wiegand convertor prints. Directly connect the readers to the ACS PRO controller

Flexible settings for connectivity is convenient for the installer to commission Wiegand readers easily

Immediate readout on controller about installed licenses via on board LEDs



LOWER COST OF OWNERSHIP

Designed to scale with your business, single to multi-site without replacing hardware

Single hardware strategy allows stock of one type of device and low service stock, still meeting end customer demands through license activated functionalities

In system take over scenarios, OSDP or Wiegand readers can be taken over by the ACS PRO controller



ENHANCED SECURITY

Next to the secure Modibus reader, ACS PRO's expanded access control (beyond 4 doors) can also be installed with OSDP readers

Each OSDP V2 bus interface can connect up to 8 OSDP readers securely



FLEXIBLE SOLUTION

Licenses allow full scalability in connectivity of additional doors, OSDP and/or Wiegand readers, features and extensions without swapping out hardware

The four Wiegand reader ports can connect with readers supporting multiple card formats simultaneously, including free formats up to 72 bits and parity bits

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ACS PRO - ACCESS CONTROLLER OSDP & WIEGAND READER COMPATIBILITY

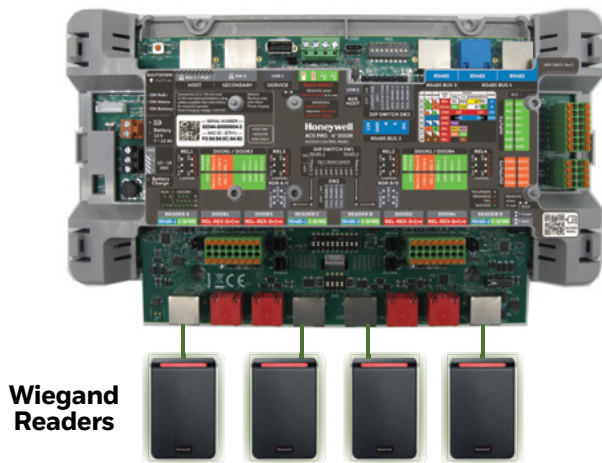
WIEGAND AND OSDP READER ACTIVATION

After applying firmware VO2.11 or higher, the ACS PRO controller can manage up to four Wiegand readers and/or up to 32 OSDP readers. This is activated after applying reader licenses (ACS-LICOW) per required OSDP or Wiegand reader.

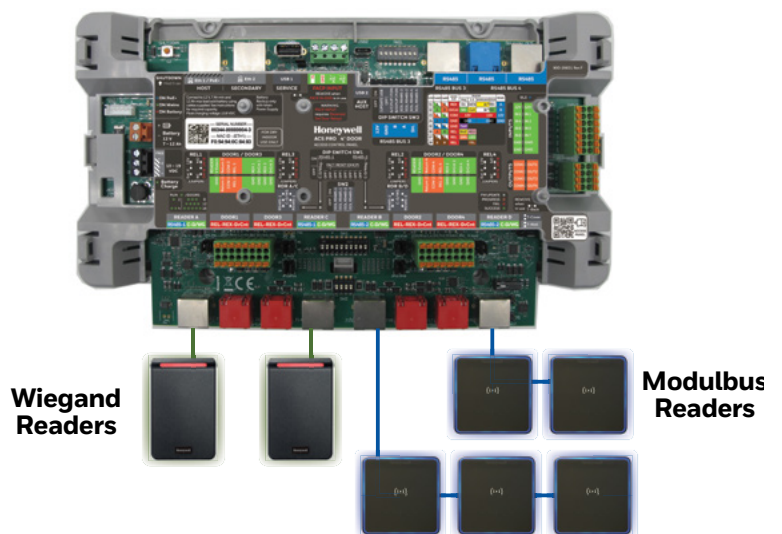
The license per Wiegand or OSDP reader allows ACS PRO to be flexible in supporting the exact amount of required Wiegand and OSDP readers. The 10th reader license activates the ACS PRO to connect any OSDP and Wiegand readers.

WIEGAND READER EXAMPLES

Wiegand Readers on ACS PRO with 4 ACS-LICOW Reader Licenses

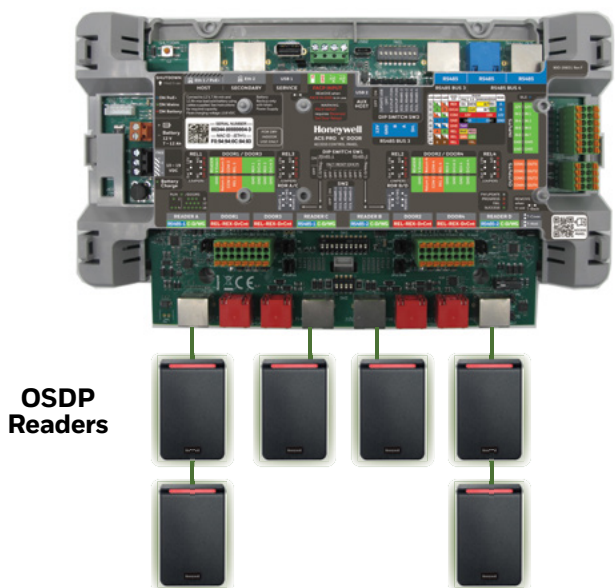


Mixed Readers on ACS PRO with 2 ACS-LICOW Reader Licenses

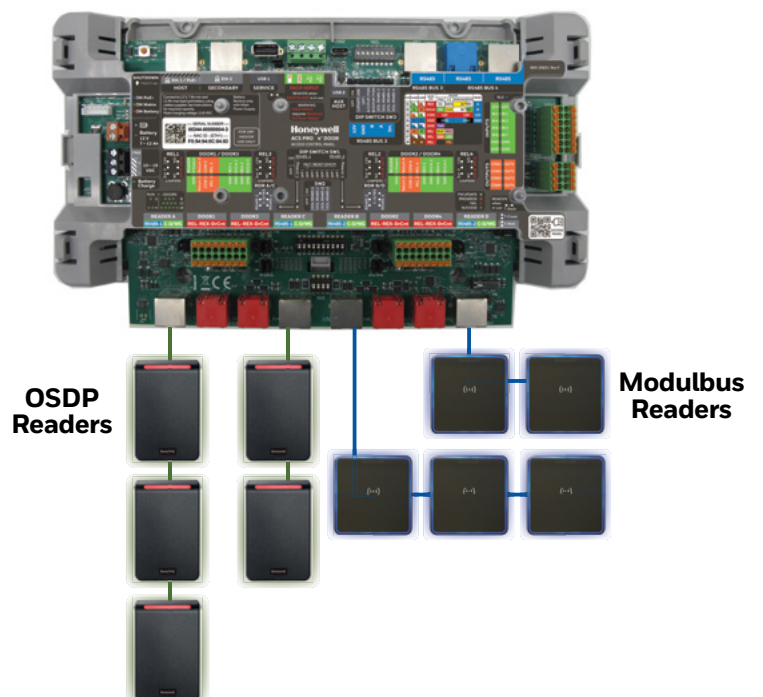


OSDP READER EXAMPLES

OSDP Readers on ACS PRO with 6 ACS-LICOW Reader Licenses



Mixed Readers on ACS PRO with 5 ACS-LICOW Reader Licenses



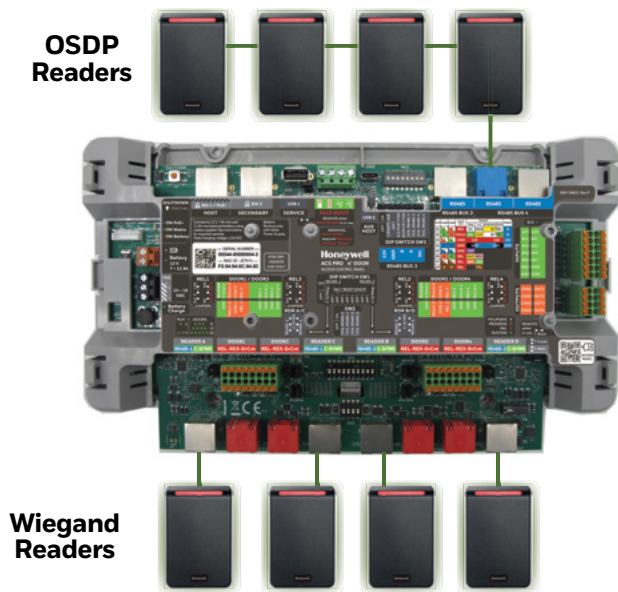
ACS PRO - ACCESS CONTROLLER OSDP & WIEGAND READER COMPATIBILITY

READER FLEXIBILITY ON ACS PRO

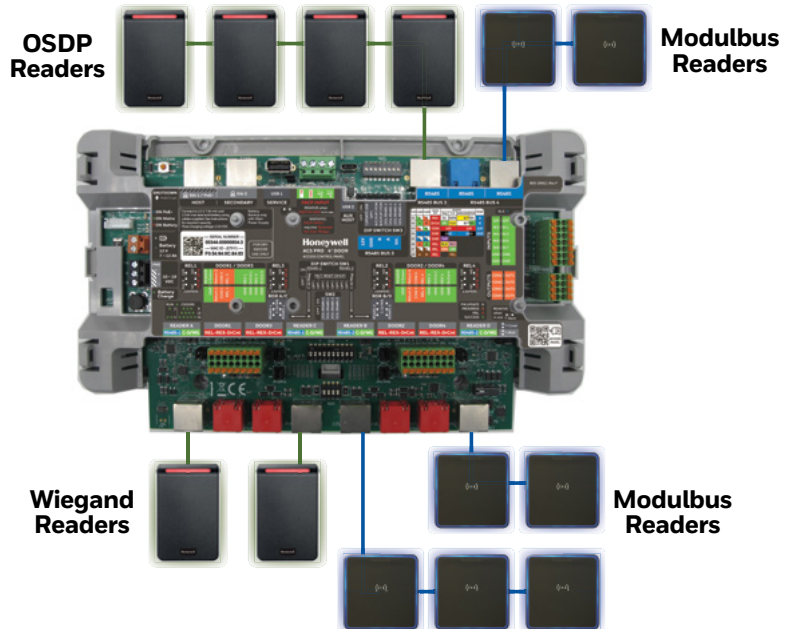
The flexibility of the ACS PRO system to connect a variety of readers with different connectivity is very high. As readers can be assigned to any door the below complex examples are possible.

WIEGAND AND OSDP MIXED EXAMPLES

Wiegand and OSDP Readers on ACS PRO 4+ Door with 8 ACS-LICOW Reader Licences

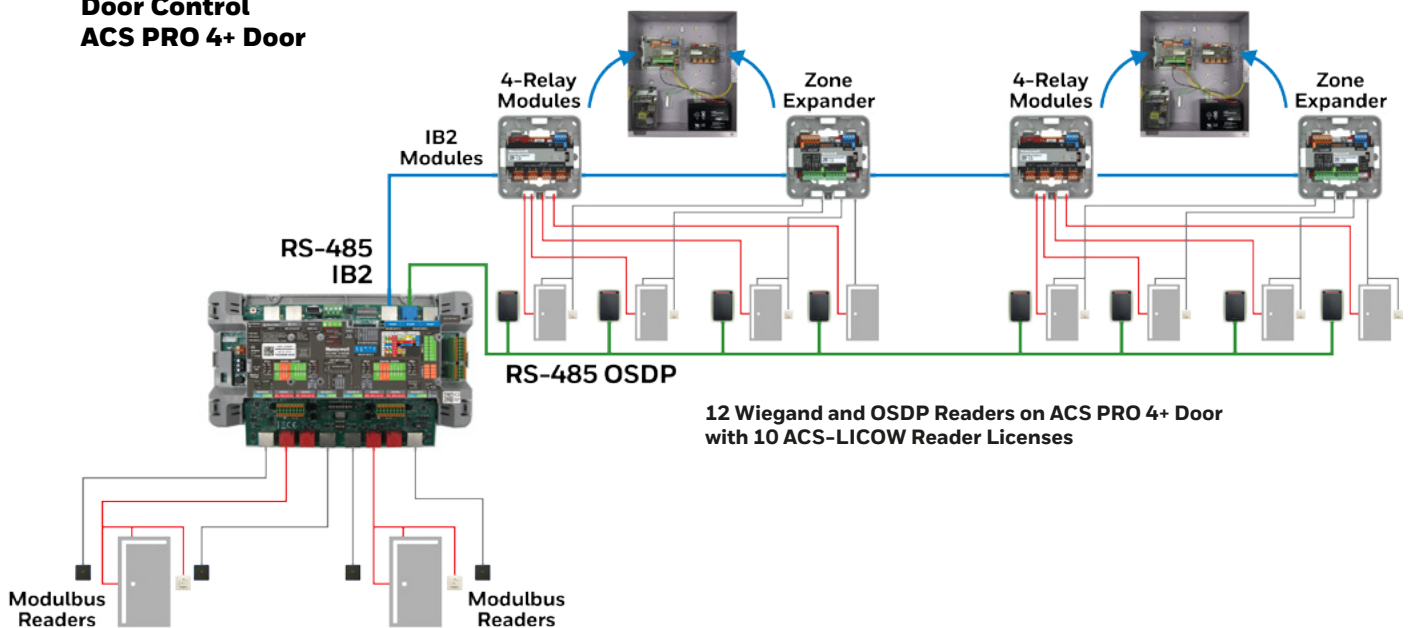


Mixed Readers on ACS PRO 4+ Door with 6 ACS-LICOW Reader Licences



OTHER EXAMPLES

Expanded Door Control ACS PRO 4+ Door



ACS PRO - ACCESS CONTROLLER OSDP & WIEGAND READER COMPATIBILITY

TABLE 1. TECHNICAL SPECIFICATIONS

Specifications		2- to 16-Door Solutions: ACS4C3-2, ACS3002E-MPS
Communications	Built-in Communication Options	Fast ethernet, USB (Service only)
	Field Device Expansion Module Connectivity via RS-485 Secure IB2	Not available in ACS PRO 2-door basic model After license ACS-LIC2D upgrade: Two RS-485 busses to connect Expansion Modules or field devices via Secure IB2 protocol ⁽³⁾ , such as: <ul style="list-style-type: none"> - Zone expander (8 input, 4 open collector output, IB2 (MPIEIO84E)) - 4-output module, IB2 (MPIEOP4) - Door Controller Module DCM Plus (MB-DC001) ⁽¹⁾
	Field Device Connectivity via RS-485 Modulbus	Not available in ACS4C3-2 2-door basic model After license ACS-LIC2D upgrade: Two RS-485 busses to connect ACS-8 field devices via default Modulbus protocol ⁽³⁾ , such as: <ul style="list-style-type: none"> - Input module, RS-485 (026590) - Output module, RS-485 (026591) - Input/Output module, RS-485 (026592) - Door module, 12 Vdc, RS-485 (026593.10) - Door module, 230 Vac, RS-485 (026594.10) - Door Controller Module DCM Plus (MB-DC001)
Readers/Doors	Door/Reader Capacity	Controller ACS4C3-2, ACS3002E-MPS, by default: 2 doors - 4 readers in RS-485 Modulbus ⁽²⁾ and clock/data mode
	Door Expandability via Licenses	Use ACS-LIC2D license to expand ACS4C3-2 to 4-door controller Use ACS-LIC4D license to expand ACS4C3 per 4 doors up to 16 doors ⁽³⁾
	Reader Compatibility	By default Modulbus Protocol readers, selectable to clock/data readers per 2 reader ports supporting proX, MIFARE Classic, MIFARE DESFire, LEGIC prime, LEGIC advant With OSDP and Wiegand readers additionally Prox, HID Prox, EM, SEOS, iCLASS and other technologies, supported by the reader
	Maximum Reader Capacity	Modulbus interface: per activated RS-485 bus up to 32 readers (max 4 interfaces) Clock/data interface: Per activated reader port 1 reader per port (activation per 2 reader ports), max 4 readers on the controller. Via additional door modules (MB-DC001 or 026594.10): 2 readers per door module OSDP interface: Per activated RS-485 bus up to 8 readers (max 4 interfaces) License ACS-LICOW per reader required Wiegand interface: Per activated reader port 1 reader per port, max 4 readers on the controller, License ACS-LICOW per reader required
Outputs	Number of Door Outputs	4 change over contact (jumper selectable NO or NC) - per door output rated at 3 A @ 30 Vdc (Voltage free) or 4 change over contact (jumper selectable NO or NC) - per 2 door outputs rated at 750 mA @ 12 Vdc (Self-powered from panel) ⁽⁴⁾
	Number of Auxiliary Outputs	As ACS4C3-2 2-door basic model: 2 change over contact (jumper selectable NO or NC) - per door output rated at 3 A @ 30 Vdc (voltage free) or 2 change over contact (jumper selectable NO or NC) - per 2 door outputs rated at 750 mA @ 12 Vdc (Self-powered from panel) ⁽⁴⁾ and 4 NO contact outputs (NC selectable in software) rated at 3 A @ 30 V (Voltage free) After license ACS-LIC2D upgrade: 4 NO contact outputs (NC selectable in software) rated at 3 A @ 30 V (Voltage free)
	Output Expandability via RS-485 Secure IB2 Expansion Modules	Not available in ACS4C3-2 2-door basic model. After license ACS-LIC2D upgrade: Maximum 128 field relays or open collector outputs via up to 32 IB2 Expansion Modules or field devices ⁽³⁾ Connect Expansion Modules or field devices via Secure IB2 protocol ⁽³⁾ (up to 16 devices per RS-485 extension bus), such as: <ul style="list-style-type: none"> - Zone expander, IB2 (MPIEIO84E) (4 open collector outputs per module) - 4 output module, IB2 (MPIEOP4) (4 relay outputs per module) - Door Controller Module DCM Plus (MB-DC001) (3 outputs per device) ⁽¹⁾
	Output Expandability via RS-485 Modulbus Field Devices	Not available in ACS4C3-2 2-door basic model. After license ACS-LIC2D upgrade: Maximum 256 field relays via up to 64 Modulbus output devices ⁽³⁾ Connect ACS-8 field devices via default Modulbus protocol (up to 32 devices per RS-485 extension bus), such as: <ul style="list-style-type: none"> - Output module, RS-485 (026591) (4 outputs per device) - Input/output module, RS-485 (026592) (2 outputs per device) - Door module, 12 V DC, RS-485 (026593.10) (3 outputs per device) - Door module, 230 V AC, RS-485 (026594.10) (3 outputs per device) - Door Controller Module DCM Plus (MB-DC001) (3 outputs per device)

(1) From Q4-2025

(2) Fully Encrypted using Encoded MIFARE DESFire cards

(3) Not directly for ACS4C3-2 2-door basic systems without additional door licenses

(4) When using RJ-45 terminal connections, the output current is limited to 500 mA per RJ-45 connector

ACS PRO - ACCESS CONTROLLER OSDP & WIEGAND READER COMPATIBILITY

TABLE 1. TECHNICAL SPECIFICATIONS

Specifications		2- to 16-Door Solutions: ACS4C3-2, ACS3002E-MPS
Inputs	Number of Inputs	16 (+8) configurable four-state supervised input points Factory default settings: Status, REX, 2 reader tampers, and 8 auxiliary inputs
	Input Supervision	All inputs can be configured in supervised double balanced resistor values: - 1 kOhm (default on expansion module MPIEIO84E) - 2.2 kOhm (default on ACS PRO controller) - 12.1 kOhm (backward compatible with ACS-8 field peripherals) - Unsupervised (digital input) (available from FW version higher than V02.04)
	Input Expandability via RS-485 Secure IB2 Expansion Modules	Not available in ACS4C3-2 2-door basic model. After license ACS-LIC2D upgrade: Maximum 256 field inputs via up to 32 IB2 Expansion Modules or field devices. ⁽³⁾ Connect expansion modules or field devices via secure IB2 protocol ⁽³⁾ (up to 16 devices per RS-485 extension bus), such as: - Zone expander, IB2 (MPIEIO84E) (8 inputs per module) - Door Controller Module DCM Plus (MB-DC001) (4 inputs per device) ⁽¹⁾
	Input Expandability via RS-485 Modulbus Field Devices	Not available in ACS4C3-2 2-door basic model. After license ACS-LIC2D upgrade: Maximum 256 field inputs via up to 64 Modulbus field devices. ⁽³⁾ Connect ACS-8 field devices via default Modulbus protocol (up to 32 devices per RS-485 extension bus), such as: - Input/output module, RS-485 (026592) (4 inputs per device) - Door module, 12 Vdc, RS-485 (026593.10) (4 inputs per device) - Door module, 230 Vac, RS-485 (026594.10) (4 inputs per device) - Door Controller Module DCM Plus (MB-DC001) (4 inputs per device)
	Panel Tamper	ACS PRO controller: panel door, off-wall and back tamper/external tamper Expansion modules: cover tamper
	FACP (Fire) Input (ACS PRO)	Normally closed contact or reversed polarity triggered fire input forces all 4 door outputs in fail-safe state, releasing fail-safe locking devices and unlocking all connected doors for escape/evacuation purposes Hardware solution overrides any software or controlled setting
Power Inputs	Standard Power Supply Unit from Metal Enclosure	100 to 240 Vac, 50/60 Hz Input provides 13.8 Vdc @ 3.3 A
	Controller Power Input	10 ~ 19 Vdc, Typical 13.8 Vdc (standard power supply from metal enclosure)
Power Outputs	Power for Locking Devices and Other Peripherals	12 Vdc, up to 750 mA per 2 door outputs for locking devices Total power output from panel to devices: 3 A @ 12 Vdc
	Backup Battery System	12 Vdc, 7~12 Ah battery (not included)
Enclosure ACS PRO Controller	Material	Metal, grey similar to RAL7500
	Wiring Holes/Knockouts	20 aligned holes
	Power Supply Unit	Included and mounted
	Front Cover	MPA2ENCME/ ACS3002E-MPS: metal, blind, grey similar to RAL7500
	Protection Class	IP30 (EN 600529)
	Environmental Class per VdS	Not applicable
Installation	Removable Terminal Blocks	Power supply, battery, fire input, push-in for all door peripherals and auxiliary inputs and outputs
	Graphic Wiring Info Cards	Color-coded/door label for additional wiring instructions
	RJ-45 Terminals	Reader ports, door peripherals (use with MPA2S5), RS-485 busses (active after ACS-LIC2D license upgrade), 2 ethernet ports (only Host active)
System Information	Real Time Clock	Geographical time zone support, daylight savings time support
	Clock Synchronization	Yes: via host software
	Processor	NPX i.MX6
	System MTBF	250,000 hours
	Temperature Ratings	Operating (including battery): -10°C to 45°C (14°F to 113°F) Storage: -40°C to 85°C (-40°F to 185°F)
	Humidity	5 % to 96 % RHNC
	Certifications and Approvals	EMC/CE
Physical	Dimensions	360 mm (W) × 410 mm (H) × 110 mm (D)
	Weight	KIT ACS3002E-MPS: 5.8 kg (battery not included)

(1) From Q4-2025

(2) Fully Encrypted using Encoded MIFARE DESFire cards

(3) Not directly for ACS4C3-2 2-door basic systems without additional door licenses

(4) When using RJ-45 terminal connections, the output current is limited to 500 mA per RJ-45 connector

ACS PRO - ACCESS CONTROLLER OSDP & WIEGAND READER COMPATIBILITY

TABLE 1. TECHNICAL SPECIFICATIONS									
Specifications		2- to 16-Door Solutions: ACS4C3-2, ACS3002E-MPS							
LEDs	Status LEDs	7 visible LEDs: 3 power LED, battery LED, Bluetooth low energy LED, RUN LED (indicating number of doors licensed) and FW LED (indicating number of other licenses) 26 LEDs on RJ-45 connectors: communication, reader mode, reader communication, door peripheral states							
	Host Modes	<table border="1"> <tr> <td>Software/Platform</td> <td>IQ-MultiAccess</td> </tr> <tr> <td>Visualisation</td> <td>WINMAG</td> </tr> </table>	Software/Platform	IQ-MultiAccess	Visualisation	WINMAG			
Software/Platform	IQ-MultiAccess								
Visualisation	WINMAG								
Door Control	Door Control Modes	<ul style="list-style-type: none"> - Card only - PIN only - Card or PIN - Card and PIN - Door lockdown - Disabled door - Limited use card - Expire on date - True and timed anti-passback - Duress, man-trap, turnstyle 							
	Macros for Customer Actions	Yes							
	Anti-Passback Capability	Local and via host software; hard and soft APB available and timed anti-passback							
	Room Time Zones	512							
	Holidays	512							
	Card Formats	Wiegand: up to 72 bit card formats, multiple card formats per reader port							
	Cards and Database	<table border="1"> <tr> <td>Card Event and Buffer Capacity</td> <td>30000</td> </tr> <tr> <td>Card Capacity per Card Holder</td> <td>Up to 3 cards per card holder</td> </tr> <tr> <td>Firmware Revision</td> <td>V02.09+ firmware updates via ACS PRO Set up tool</td> </tr> <tr> <td>Export Capability</td> <td>Via host software</td> </tr> </table>	Card Event and Buffer Capacity	30000	Card Capacity per Card Holder	Up to 3 cards per card holder	Firmware Revision	V02.09+ firmware updates via ACS PRO Set up tool	Export Capability
Card Event and Buffer Capacity	30000								
Card Capacity per Card Holder	Up to 3 cards per card holder								
Firmware Revision	V02.09+ firmware updates via ACS PRO Set up tool								
Export Capability	Via host software								
Reporting/Diagnostics	Reports	Via host software							

ACS PRO - ACCESS CONTROLLER OSDP & WIEGAND READER COMPATIBILITY

ACS PRO FLEXIBILITY VIA LICENSES

TABLE 2. LICENSING INFORMATION

ACS PRO Controller	Solution		Required Licenses	
	Access Controlled Doors	RS-485 (BUS 3 AND 4) Field Device Busses	ACS-LIC2D: 2-Door Upgrade from Basic Model	ACS-LIC4D: 4-Door Upgrade from 4-Door and Higher
Basic Model: ACS4C3-2, ACS3002E-MPS	2	Deactivated	None	None
	4	Modulbus, IB2 or OSDP*	1	None
	8	Modulbus, IB2 or OSDP*	1	1
	12	Modulbus, IB2 or OSDP*	1	2
	16	Modulbus, IB2 or OSDP*	1	3
VdS Model: ACS4C3, ACS3004V-MPS	4, not extendable	Yes: for Modulbus readers only	None	None

Note: Other configurations are not applicable.

For extension/upgrade of already upgraded controllers, add the difference between the required licenses and the installed licenses

* OSDP interface selectable when at least one ACS-LICOW license is activated on the ACS PRO controller

TABLE 3. READER LICENSING INFORMATION OSDP/WIEGAND

ACS PRO Controller	Solution				
	Access Controlled Doors	IN READER PER DOOR Recommended Maximum Number of READERS*			
		OSDP	Required ACS-LICOW licences	Wiegand	Required ACS-LICOW licences
Basic Model: ACS4C3-2, ACS3002E-MPS	2	2	2	2	2
	4	4	4	4	4
	8	8	8	4	4
	12	12	10*	4	4
	16	16	10*	4	4
ACS PRO Controller	Solution				
	Access Controlled Doors	IN and OUT READER PER DOOR Recommended Maximum Number of READERS*			
		OSDP	Required ACS-LICOW licences	Wiegand	Required ACS-LICOW licences
Basic Model: ACS4C3-2, ACS3002E-MPS	2	4	4	4	4
	4	8	8	4	4
	8	16	10*	4	4
	12	24	10*	4	4
	16	24**	10*	4	4

A mix of Wiegand and OSDP readers is possible. Free interface ports can be used by other protocols, such as Modulbus and Clock/Data.

* Maximum number of ACS-LICOW is 10 licenses. The 10th switches the controller to allow any mixed number of OSDP or Wiegand readers

** A maximum of 3 RS-485 interfaces are available for reader bus use (eg OSDP). The remaining RS-485 interface must be used for I/O expander modules via IB2 or legacy I/O modules via Modulbus.

ACS PRO - ACCESS CONTROLLER FOR EXPANSION MODULES IB2

TABLE 4. ORDERING INFORMATION

Solution	Description
ACS3002E-MPS	ACS PRO - 2-door basic model, controller & metal enclosure, PSU, no external busses
ACS3004V-MPS	ACS-4-door controller & metal enclosure, PSU, VdS / EN60839-11-1/2 compliant
Extension Licenses	Description
ACS-LIC2D	License for ACS4C3-2/ACS3002E-MPS, upgrading to full 4-door controller
ACS-LIC4D	License for ACS4C3-2/ACS3004E-MPS, allowing the controller to manage 4 extra doors
ACS-LICOW	License for ACS4C3-2/ACS3002E-MPS / ACS3004E-MPS to allow one OSDP or Wiegand reader Note: 10 Licenses allows unlimited OSDP / Wiegand readers on ACS PRO controller
Accessories	Description
ACS4C3-2	ACS PRO - 2-door controller, in plastic bracket, extendable
ACS4C3	ACS-4-door controller, in plastic bracket, for VdS/EN60839-11-1/2 compliant systems (FW1.18+)
MPA2ENCME	Metal wall mount enclosure + PSU for ACS4C3-2 2-door controller and IB2 expansion modules
MPACSENCM2U	Metal enclosure 19-inch rack mount + PSU for ACS4C3-2 door controller
ACS4ENCMV	Metal wall mount enclosure + PSU for ACS4C3 4-door controller for VdS Compliance
MPDIN10	Set of 10 DIN-rail adapters
MPA2RJ	RJ-45 to 8-screw terminal block
MPA2S5	S5 suppressor/supervisory cable for door peripherals (Lock, door contact and REX button)
O18004.10	7 Ah lead acid battery, 12 V
O18011.10	12 Ah lead acid battery, 12 V
Compatible Expansion Modules	Description
MPIEIO84E	Zone expander module for 8 inputs and 4 open collector outputs via RS-485 secure IB2
MPIEOP4	Relay output module for 4 change over relay outputs via RS-485 secure IB2
MB-DC001	DCM Plus - Door Controller Module, 2-door expansion via RS-485 Modulbus ⁽¹⁾
MPIPSU35	Remote power supply 2 × 1.5 A @ 12 Vdc with battery back up (stand alone) ⁽²⁾
Backward Compatible Field Devices	Description
O26590	Input module, via RS-485 Modulbus (end of life)
O26591	Output module, via RS-485 Modulbus (end of life)
O26592	Input/output module, via RS-485 Modulbus (end of life)
O26593.10	Door module, 12 Vdc, via RS-485 Modulbus (end of life)
O26594.10	Door module, 230 Vac, via RS-485 Modulbus

(1) Modulbus only, IB2 compatible available from Q4- 2025

(2) IB2 bus connection functional on ACS PRO from 2026

For More Information

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