MPA1

Smart Edge Access Control

Honeywell's Smart Edge Single Door Controller MPA1 provides secure Cloud based and Web based access control solutions.

MPA1 controller enables users to securely and easily deploy their access control system anywhere there's an Ethernet/Internet connection—with no dedicated PC or software costs.

This single door POE powered controller is easy to install, operate and maintain, thanks to its unique edge installation design and its dedicated Device Utility App for fast and easy commissioning. It can either be mounted in a US single gang junction box or in a specially designed compact enclosure with Status LED diagnostics. It connects up to two secure OSDP readers, providing enhanced security.

MPA1 gives you all the benefits of traditional access control, such as helping you secure doors, manage employee access, and manage sites remotely. It also lets you pull reports easily to meet compliance requirements.

With a browser-based interface, your learning curve and training times are significantly decreased. No dedicated software is required — simply log on and you're ready to go, securely — from the office or anywhere. You can manage MPA1 using MAXPRO® Cloud's secure cloud infrastructure or the embedded browser.

MPA1 has been developed with a small installer-friendly design that easily adapts to existing IT infrastructure and methods, reducing installation and support costs. So as your system grows, MPA1 grows with you.

FEATURES AND BENEFITS

INCREASED PRODUCTIVITY

In MAXPRO® Cloud easily controlled and monitored via the Cloud app, adding advanced features, such as video and intrusion integration, advanced reporting and rules.

In web mode the new, faster, and more intuitive user interface decreases time spent on deployment and training.

Embedded browser features basic access control that is simple and easy to use.

New, faster Hardware.

FASTER INSTALLATION

Single door PoE powered edge controller is fast and easy to commission via the Device Utility App on your Android or iOS mobile phone.

At-the-door mounting decreases cable runs.

Small edge design fits in US single gang junction box.

The elegant small plastic enclosure has been designed for easy access to wiring and Status LED diagnostics.

LOWER COST OF OWNERSHIP

Offering, quoting, and installation is simple and easy to learn.

IP-based hardware with Power over Ethernet (PoE) capability eliminates additional network wiring and simplifies powering the panel.

Single door controller that can be networked with additional controllers via Ethernet Virtual Loop (EVL)*.

User-friendly access control management via the embedded interface.

ENHANCED SECURITY

Full Card-to-Host secured communication from smart card to Cloud App or Web browser.

Secure 128-bit AES encrypted bi-directional reader - panel communication (OSDP:V2) protocol.

256-bit AES encrypted communication between panel and cloud app or web browser.

Accelerometer based tamper and additional panel tamper switch included on the plastic enclosure.

FLEXIBLE CAPABILITY

Cloud or Stand alone capability from one panel.

Small design can be used in US J-box and sleek enclosure.

Diverse deployment for a large variety of jobs—Cloud Based Access management allows easy access to the door and integration with video and intrusion in single or multi site applications.

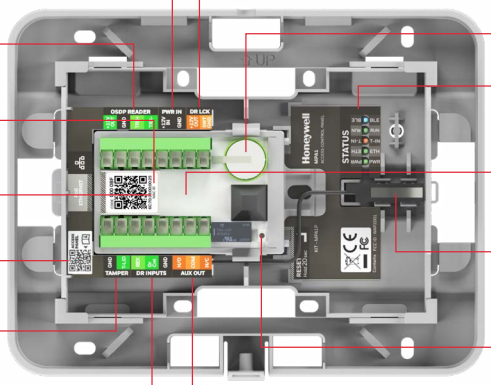
In stand alone mode the MPA1 can control a single door or manage multiple networked controllers.

** Ethernet Virtual Loop (EVL) is compatible with MPA1 and NetAXS-123 panels.*

Honeywell

MPA1 ENCLOSURE OPTIONS

MPA1 Smart Edge Access Control Panel (MPA1P)



External PSU (12Vdc) Power Input
For external PSU with battery backup
On 12V PWR LED

OSDP Reader color coded (Green) screw terminal
Up to 2 OSDP readers

PoE Ethernet connection
PoE, UPS Backup, Click 'n Done,
Data/Link ETH LED, On PoE PWR LED

QR Code for Authentication / Commissioning
Device Utility App Via Bluetooth

QR Code for digital manuals
Manuals via Mobile phone

Tamper Input color coded (Green) screw terminal
Lid/Cover Tamper monitoring
Tamper Status Indication T-IN LED

Door Inputs color coded (Green) screw terminal
DrCnt (Door Status)/REX (Request to Exit)
REX and Door Status Indication T-IN LED

Door Lock color coded (Orange) screw terminal
Switched Ground, 12VDC Powered output

Replaceable Battery
Real Time Clock Battery Back up

Status LEDs
Power, Ethernet Link, Tamper and Inputs, Run, Bluetooth

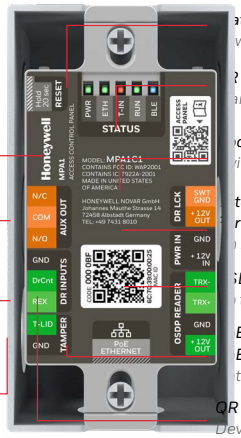
Tamper
Internal tamper Accelerometer
Tamper Status Indication T-IN LED

Tamper
Tamper Switch for Cover
Tamper Status Indication T-IN LED

Reset button - Factory default
Activate Bluetooth for Commissioning
Bluetooth activate BLE LED

Auxiliary Output color coded (Orange)
screw terminal
Potential Free, SPST

MPA1 Smart Edge Miniature Access Control Panel (MPA1C1)



Small design
Fits in US single gang junction box

Reset button - Factory default
Activate Bluetooth for Commissioning
Bluetooth activate BLE LED

Tamper, Internal tamper Accelerometer
Tamper Status Indication T-IN LED

Auxiliary Output color coded (Orange) screw terminal
Potential Free, SPST

Door Inputs color coded (Green) screw terminal
DrCnt (Door Status)/REX (Request to Exit)
REX and Door Status Indication T-IN LED

Tamper Input Color coded (Green) screw terminal
Lid/Cover Tamper monitoring
Tamper Status Indication T-IN LED

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or Lock color coded (Orange) screw terminal
itched Ground, 12VDC Powered output

ternal PSU (12Vdc) Power Input
r external PSU with battery backup
12V PWR LED

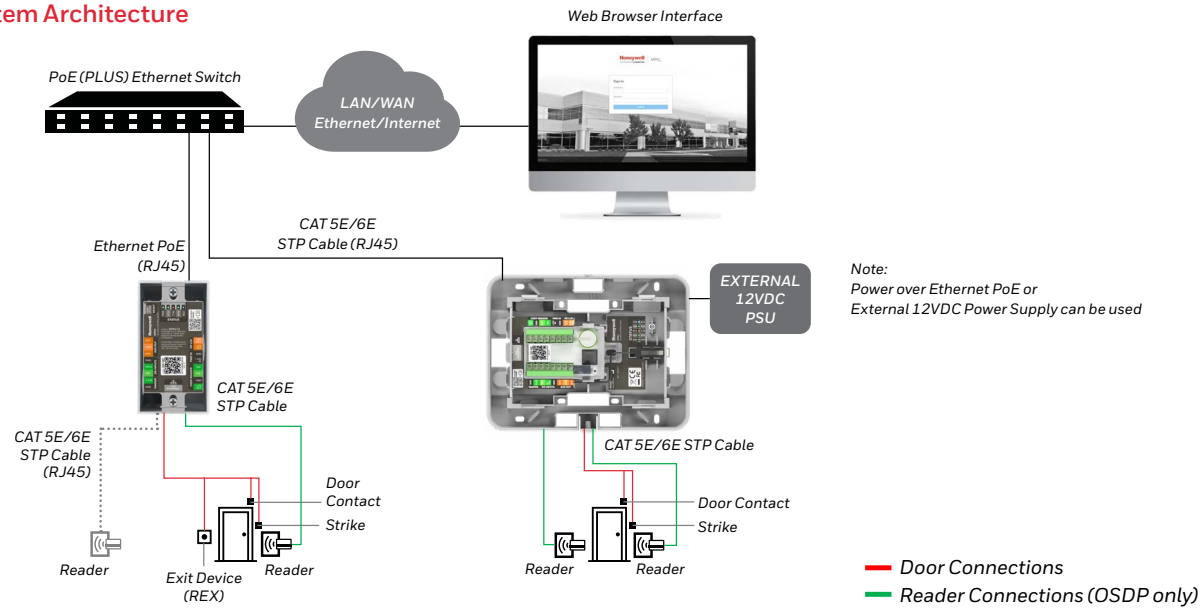
SDP Reader color coded (Green) screw terminal
to 2 OSDP Readers

E Ethernet connection
E, UPS Backup, Click 'n Done
ta/Link ETH LED, PoE On PWR LED

QR Code for Authentication / Commissioning
Device Utility App Via Bluetooth

MPA1 SYSTEM OVERVIEW

MPA1 System Architecture



Note:
Power over Ethernet PoE or
External 12VDC Power Supply can be used

MPA1 ACCESS CONTROL PANEL

MPA1 READER/DOOR CONFIGURATIONS		
CONFIGURATION	INPUTS/OUTPUTS	OSDP
1 Door / 1 Direction	DrCnt (Door Contact), REX (Request to Exit), Switched Ground	Yes
1 Door / 2 Direction	DrCnt (Door Contact), Switched Ground	Yes

MPA1 READER/DOOR CONFIGURATIONS		
	SPECIFICATIONS	MPA1
Communications	Built-in Communication Options	Ethernet
	Commissioning Device Utility App	BLE 4.1
	Controller Loop Capability	EVL(1): 16 MPA1 or NetAXS-123 (FW 06.00.10.29 or higher)
Readers/Doors	Door/Reader Capability	1 Door/2 OSDP Readers
	Expandability	Expandable to 16 Doors/32 Readers per EVL connectivity
	Reader Compatibility	OSDP:V2
Outputs	Number of Outputs	Door lock control: 1 Switched Ground output rated at 500 mA @ 12VDC (12V output fused) or rated at 3A with 12V External power; Auxiliary output: 1 SPDT (NO and NC contacts) rated at 2A @ 28 VDC
	Output Expandability	Not Available
	Relay Power Source	Door lock: 12 VDC @ 500mA Self-Powered source Auxiliary Output: 0–28 VDC externally supplied source
Inputs	Number of Inputs	2 (+1) Configurable four-state supervised input points (Factory Default Settings are: Door Status, REX, enclosure tamper)
	Input Expandability	Not Available
	Panel Tamper	Internal Tamper: Accelerometer; External Tamper: for enclosure cover
Power Inputs	Unit Input	Power Over Ethernet 802.3af Power Class 3 Via separate external power supply 12VDC. maximum input current 900mA
	Socket or Hardware AC Input (IEC)	Not Available
	Control Board Power Input	12 VDC from external Power Supply
Power Outputs	Power for Locks/Strikes/ Reader(s)/Input Devices	When PoE powered: 500mA for strikes, 500mA for Readers (700mA @ 12VDC Total) When Externally powered: Up to 3A for Locks, 500mA for Readers.
	Backup Battery System	N/A - Recommend UPS backup to PoE switch or inserter or battery to backup external power supply
Enclosure	Material	ABS
	Wiring Access Holes/Knock-outs	4
Installation	Terminal Blocks with Colour-coded Labels	Readers, Door inputs, Door lock, Auxiliary output, Tamper and Power in.
	Info Cards/Labels	Yes
	Captive Mounting Hardware	Yes
System Information	Real Time Clock	Global Geographic Time Zone support; Daylight Saving Time support
	Clock Synchronization	Yes: via NTP Network Server
	Processor	IMX6UL
	System Mean Time Between Failures	220,000 Hours
	Temperature Ratings	Operating with PoE : 0°C to 40°C (32°F to 104°F); Operating with 12VDC: 0°C to 49°C (32°F to 120°F); Storage: -55°C to 85°C (-67°F to 185°F)
	Humidity	85% Non-Condensing
	Certifications and Approvals	EMC/CE and FCC Compliant; UL 294 and CAN/ULC 60839-11-1 Listing
Physical	Dimensions	Controller: 3.95 inch (100 mm) h x 1.78 inch (45 mm) w x 1.1 inch (28 mm) d Enclosure: 5.51 inch (140 mm) h x 7.09 inch (180 mm) w x 1.7 inch (43 mm) d
	Weight	600 grams approx. (Controller in enclosure)

(1) When mixing MPA1 and NetAXS123 Controllers, MPA1 must be the Primary Panel and the Panel Loop must be EVL

MPA1 ACCESS CONTROL PANEL

SPECIFICATIONS		
	SPECIFICATIONS	MPA1
LEDs	Status LEDs	5 LEDs total (Power, Ethernet Link, Tamper / Input Status, Run, Bluetooth active)
Host	Software Compatibility	MAXPRO® Cloud or Embedded Web Server
	MPA1 as Primary Panel(1)	Supported Downstream Panels include MPA1 and NetAXS-123(1)
	Using N-485-PCI-2/PCI-3 Converter	Not Supported
Door Control	Door Control Modes	Card only; Card and PIN; Card or PIN; PIN only; Lockdown; Disabled; Supervisor; Escort; Limited use card; Expire on date; First Card Rule; Snow Day Rule; Time Zone Toggle; Anti-Passback; Duress
	Interlocks For Customer Actions	Yes
	Anti-Passback Capability	Local and Global Capability; Hard and Soft Implementation
Cards and Database	Card and Event Buffer Capacity	10,000 Card Capacity; 25,000 Event Capacity
	Firmware Revision	On-board Flash Memory for Field Firmware Revision Updates and Feature Expansion
	Offline Database Backup Available	Card and Configuration Databases
	Export Capabilities	Card Database; Alarms and Events (CSV format)
	Number of Card Formats	128 unique card formats can be supported
	Site Codes	8
	Maximum Card Format Size	75-bit (maximum card # = 64-bits)(2)
	Time Zones	127
	Access Levels	128
	Holidays	255
Reporting and Analysis	Integrated Basic Reports	Yes
	Import/Export of Card Database	Yes
	Alarm/Event Export	Yes
Web	Supported Browsers	Google Chrome (preferred)

(1) EVL only.
(2) Suitable for handling the 75-bit transparent card format of PIV, TWIC, and FRAC cards.

ORDERING	
SOLUTIONS	
MPA1P	MPA1 Single Door Access Control Solution. Includes: MPA1C1, MPA1ENCP
ACCESSORIES	
MPA1ENCP	MPA1 Plastic Enclosure for MPA1C1
MPA1C1	MPA1 Single Door Access Control Solution - Fits in US J-box

For More Information
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