

PW-M Series Modular Access Control System

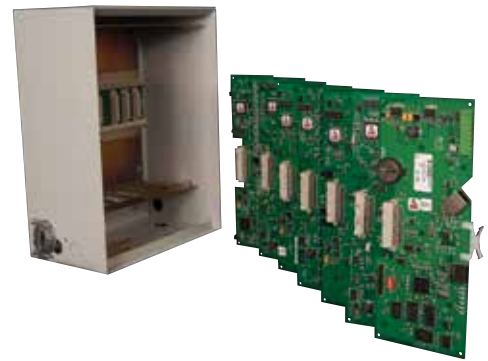
Intelligent Controllers

The PW-M Series Modular Control System is an advanced access control hardware architecture capable of providing solutions for large enterprise applications. The PWM5 boards feature a plug and play format that makes Casi upgrades a “screwdriverless” change over. This solution combines the flexibility and capabilities of Pro-Watch® with the power of the PWM5IC with its 32-bit architecture, TCP/IP support, flash memory, large local cardholder database, and large reader and I/O module support.

Pro-Watch handles system configuration, alarm/event monitoring and operation of the Intelligent Controller via TCP/IP. In the event of a communication break the Intelligent Controller is fully capable of operating off-line, making access control decisions independently of Pro-Watch. Connectivity to the host computer is accomplished via TCP/IP network connection.

The PWM5IC Intelligent Controller is a direct replacement for the Casi PX, PXN and PXNplus CPU controller.

It supports up to 64 Readers and up to 3 separate additional Micro5 enclosures via RS485 using the PWM5COM board allowing Reader, Output and Input boards to be combined as needed to minimize cost and optimize mounting options.



The PW-M series consist of the following:

<i>PWM5IC</i>	<i>Intelligent Controller</i>
<i>PWM2KIC</i>	<i>M2000 Intelligent Controller</i>
<i>PWM52SRP</i>	<i>2 Reader Board with Supervised Inputs</i>
<i>PWM52RP</i>	<i>2 Reader Board</i>
<i>PWM58RP</i>	<i>8 Reader Board</i>
<i>PWM516DO</i>	<i>16 Digital Output Board</i>
<i>PWM516DOR</i>	<i>16 Output Board with Relays</i>
<i>PWM520IN</i>	<i>20 Input Board</i>
<i>PWM5COM</i>	<i>Communication Board</i>
<i>PWM5MUX8</i>	<i>M5 8-Port Multiplexer</i>

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 starting date and duration
- Automatic calculation of leap year and Daylight Saving Time
- 19-digit (64-bit) user ID
- Support for FIPS long card numbers
- Up to eight card formats per reader
- Activation/deactivation dates by card
- Up to 12 access levels per card or individual time zones per readers
- Up to 15-digit Personal Identification Numbers (PIN)
- 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
- Entire card bit-stream reported with invalid facility code or invalid card format
- Anti-passback support – free pass and exempt flags, last area accessed, last reader accessed, time/date of last access
- Configurable as standard, entry delay latching, entry delay non-latching and exit delay
- 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)

PW-M Series Modular Access Control System

SPECIFICATIONS

DATABASE

Cardholders: 600,000

Transaction storage: 50,000

Firmware: Flash programming for revision updates

Access codes: virtually unlimited

Holidays: virtually unlimited

Time codes: 255

Card reader formats: 8 per reader

Credential facility codes: 8

Elevator support: 128 floors

Dedicated alarms:

- 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

COMMUNICATION MODULES

Communication Ports:

Host Port 0: 10/100- TX Ethernet

Optional alternative Port:

10-BaseT/100Base-TX Ethernet port using a Lantronix Micro125 interface daughter board, p/n MO11AA003-01R, or equivalent

Peripheral interface Port 2: 2-wire RS-485, asynchronous

Peripheral interface Port 3: 2-wire RS-485, asynchronous

Inputs: Two dedicated: tamper and power monitor

Connectivity:

Primary Port: 10/100 Ethernet

IP Server, IP Client, DHCP Client

HTTP, TLS, X.509

Download functionality

System functional during system download:
Yes

System functional during credential download:
Yes

OPERATIONAL FUNCTIONALITY

Duress detection

Operational modes:

- Credential only
- PIN only
- Credential or PIN
- Credential and PIN
- Facility code only

Maximum PIN size: 15 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: 999 levels

READERS AND CREDENTIALS

Prox:

- OmniProx
- HID Prox
- DigiReaders
- Indala Readers

Smart:

- OmniClass
- iClass
- Mifare
- DESFire

Keypad

Magstripe

Wiegand

Casi F/2F

BOARD DIMENSIONS

PWM51C:

10.25" L x 4.56" W x 0.8" H
(260.4 mm L x 115.8 mm W x 20.3 mm H)

PWM2KIC:

11.375" L x 8.375" W x 1.04" H*
(289.1mm L x 212.7mm W x 26.5mm H)
*without PWM51C

PWM52SRP:

10.25" L x 3.5" W x 0.69" H
(260.35mm L x 88.9mm W x 17.5mm H)

PWM52RP:

10.25" L x 3.5" W x 0.69" H
(260.35mm L x 88.9mm W x 17.5mm H)

PWM58RP:

10.25" L x 3.5" W x 0.69" H
(260.35mm L x 88.9mm W x 17.5mm H)

PWM516DO:

10.25" L x 3.5" W x 0.69" H
(260.35mm L x 88.9mm W x 17.5mm H)

PWM516DOR:

10.25" L x 3.5" W x 0.5" H
(260.35mm L x 88.9mm W x 12.7mm H)

PWM520IN:

10.25" L x 3.5" W x 0.69" H
(260.35mm L x 88.9mm W x 17.5mm H)

PWM5COM:

10.25" L x 3.5" W x 0.6" H
(260.35mm L x 88.9mm W x 15.24mm H)

PWM5MUX8:

10.25" L x 3.5" W x 0.69" H
(260.35mm L x 88.9mm W x 17.5mm H)

ENVIRONMENT

Temperature:

32 to 158° F (0 to 70° C) operational;
-67 to 185° F (-55 to 85° C) storage

Humidity:

0 to 95% RHNC

WIRE REQUIREMENTS

Power:

Twisted pair, 18 AWG

RS485:

24 AWG, 4,000' (1,200m) max, 2 twisted pairs with shield (120W, 23 pF, Belden 9842 or equiv.)

Alarm input:

Twisted pair, 30 ohms max

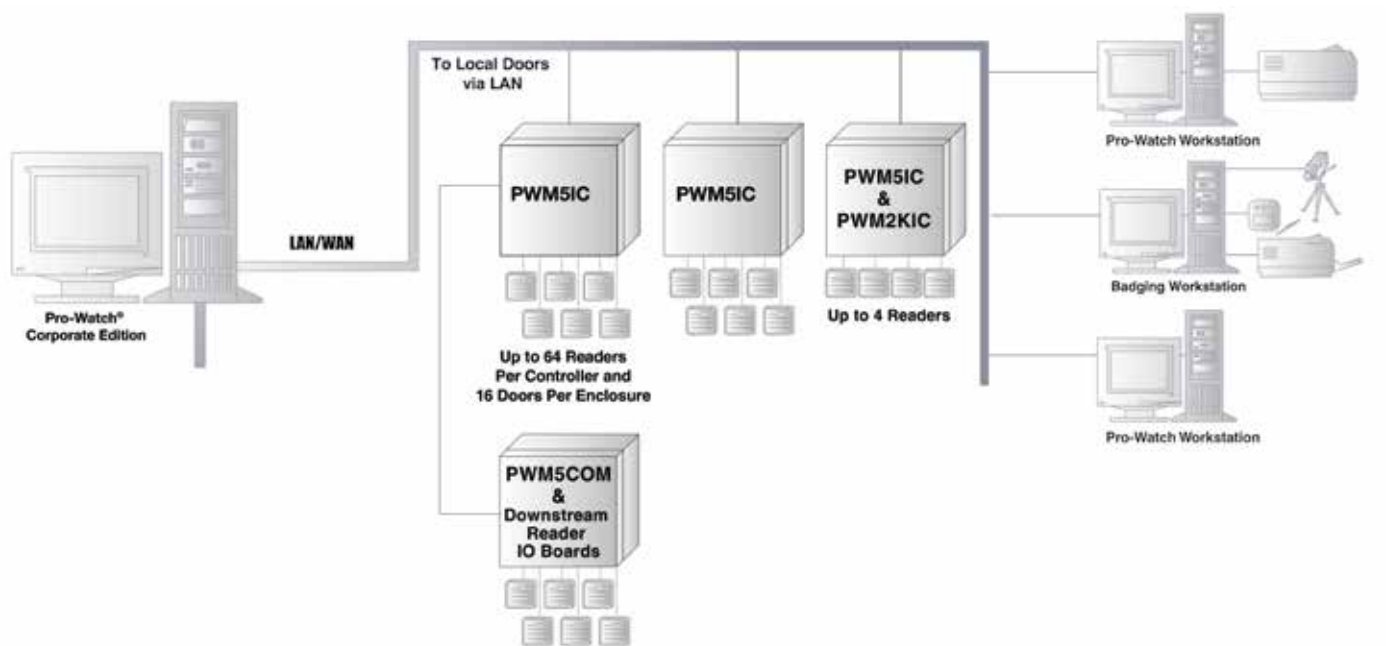
COMMUNICATIONS - BACK PLANE SUPPLIED

9600, 19200, 38400, or 115200 bps, asynchronous

BENEFITS

- True 32-bit microprocessor provides fast transaction processing for the most demanding network applications
- Modular hardware architecture provides flexibility and expansion capabilities
- Flash memory allows new versions of firmware to be downloaded from the host computer to the controller(s) through the central network
- 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 beyond its initial installation
- Seamless support for TCP/IP protocols to allow intelligent controllers to tap into a LAN or WAN connectivity
- Supports multiple reader and card formats for maximum flexibility and security options
- 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)

PW-M Series Configuration



DESCRIPTION	CASI/GE/UTC	HONEYWELL PART NUMBER
Intelligent Controller	PX, PXN, PXN+	PWM51C
Communication Board	PWR/COM	PWM5COM
2 Reader Board	2RP	PWM52RP
2 Reader Board with Supervised Inputs	2SRP	PWM52SRP
8 Reader Board	8RP	PWM58RP
16 Digital Output Board	16DO	PWM516DO
16 Output Board with Relays	16DOR	PWM516DOR
20 Input Board	20DI	PWM520IN

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ORDERING

PART NUMBER	DESCRIPTION
PW-M SERIES	
PWM5IC	Intelligent Controller – Capacity for up to 64 Readers
PWM2KIC	M2000 Intelligent Controller*
PWM52SRP	2 Reader Board with Supervised Inputs
PWM52RP	2 Reader Board
PWM58RP	8 Reader Board
PWM516DO	16 Digital Output Board
PWM516DOR	16 Output Board with Relays
PWM520IN	20 Input Board
PWM5COM	Communication Board
PWM5MUX8	8-port Multiplexer

*PWM5IC needed in conjunction with PWM2KIC sub-panel

For more information

www.honeywellintegrated.eu

Honeywell Security and Fire

Honeywell International Middle East
Sheikh Zayed Road, EMAAR Business Park
Building 2, Level 2, Office 201
PO Box 232362, Dubai, U.A.E.
Telephone: +971 4 4505800
Facsimile: +971 4 4505900
www.honeywell.com

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