

## PW-MS Series

### Intelligent Controllers

The PW-MS Series Modular Control System is an advanced access control hardware architecture capable of providing solutions for large enterprise applications. The PWMS series features a plug and play format that makes Software House upgrades a “screwdriverless” transition. This solution combines the flexibility and capabilities of Pro-Watch® with the power of the PWMSIC 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 PWMSIC Intelligent Controller is a direct replacement for Software House Pro Series GCM. The PWMSIC supports 2 direct connected PWMSACS Modules by ribbon cable. However, the PWMSIC provides increased expansion capability over the Software House Pro Series GCM by supporting a total of 64 readers by leveraging a secondary RS-485 port to connect subpanels. The PWMSIC can be combined as needed with other PW series panels to minimize cost and optimize mounting options.



The PW-MS series consist of the following

Four boards:

PWMSICS	Intelligent Controller
PWMSACS	8 Reader Board
PWMSI8S	8 Input Board
PWMSR8S	8 Output Board with Relays

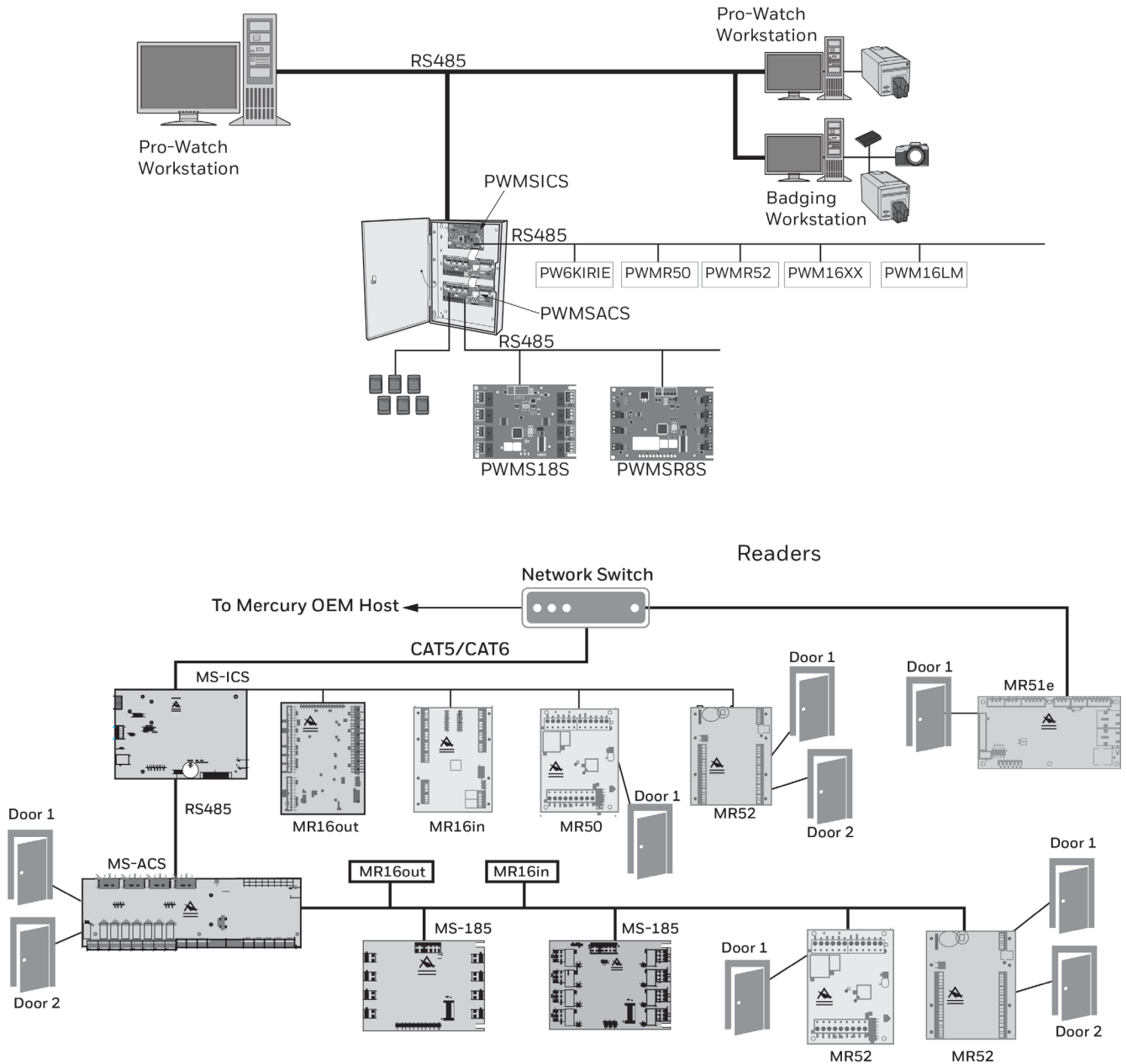
## FEATURES

- 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 reader.
- 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-MS Series 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...
- Large, local controller database allows access control decisions to be made by the 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).

## Series Configuration



# PW-MS Series Technical Specifications

SPECIFICATION	DESCRIPTION
<b>DATABASE</b>	
Cardholders	300,000
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 low batter alarm; dedicated power fail alarm
Real-time Clock	Geographic time zone support; Daylight Saving Time; Leap Year support
<b>COMMUNICATION MODULES</b>	
<b>COMMUNICATION PORTS</b>	
Host Port 0	10/100-TX Ethernet
Operational Alternative Port	10-BaseT/100-BaseTX Ethernet port using a Lantronix Micro 125 interface daughter board, p/n M011AA003-01R, or equivalent
Peripheral Interface Port 1	TB2
Peripheral Interface Port 2	2-wire RS-485, asynchronous
Inputs	Three dedicated: cabinet tamper, power monitor, and low battery
<b>CONNECTIVITY</b>	
Primary Port	10/100 Ethernet
<b>IP Server, IP Client, DHCP Client HTTP, TLS, X.509</b>	
<b>DOWNLOAD FUNCTIONALITY</b>	
<b>System functional during system download</b>	
<b>OPERATIONAL FUNCTIONALITY</b>	
<b>Duress Detection</b>	
Operational Modes	Credential only; PIN only; credential or PIN; credential and PIN; facility code only.
Maximum PIN size	8 digit
<b>Door Object Support</b>	
Threat Level Support	100 levels
<b>Two-person Access Rule</b>	
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
<b>READERS AND CREDENTIALS</b>	
Prox	OmniProx; HID PRox; DigiReaders; Indala Readers
Smart	OmniProx; iClass; Mifare; DESFire
<b>Keypad</b>	
<b>Magstripe</b>	
<b>Wiegand</b>	
<b>PHYSICAL SPECIFICATIONS</b>	
<b>BOARD DIMENSIONS</b>	
PWMSICS (LxWxH)	8.58 x 5.83 x 0.98 inches (218.0 x 148.0 x 25.0 mm)
PWMSACS (LxWxH)	12.25 x 4.65 x 0.65 inches (311.0 x 118.0 x 16.5 mm)
PWMSI8S (LxWxH)	5.90 x 4.33 x 0.65 inches (150.0 x 110.0 x 16.5 mm)
PWMSR8S (LxWxH)	5.90x 4.33 x 0.65 inches (150.0 x 110.0 x 16.5 mm)
<b>ENVIRONMENTAL</b>	
Operational Temperature	32° to 122°F (0° to 50°C)
Storage Temperature	-67° to 185°F (-55° to 85°C)
Humidity	0 to 95% RHNC
<b>WIRE REQUIREMENTS</b>	
Power	Twisted pair, 18 AWG
RS-485	24 AWG, 4,000 ft (1,200 m) max, 2 twisted pairs with shield (120 W, 23 pF, Belden 9842 or equivalent)
Alarm Input	Twisted pair, 30 ohms maximum
<b>COMMUNICATIONS</b>	
Supported Baud Rates	9600, 19200, 38400, or 115200 bps, asynchronous

# PW-MS Series Modular Access Control System

## ORDERING

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### NETAXS-4 WEB-BASED ACCESS CONTROL PANELS

PWMSICS	Intelligent Controller – Capacity for up to 64 Readers
PWMSICS	8-Reader Board
PWMSI8S	8-Input Board
PWMSR8S	8-Output Board with Relays

### For more information

[www.honeywellintegrated.com](http://www.honeywellintegrated.com)

### Honeywell Security and Fire

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