PW7000-SERIES

Controllers and I/O Boards

> **The PW7000-Series Access Control System is an advanced access control hardware architecture capable of providing solutions for large enterprise applications.**

The Intelligent Controllers provide power and flexibility with an embedded Linux OS, improved processor and increased memory as well as onboard crypto chip which adds an additional layer of security to sensitive data.

The PW-series controllers support a combination of I/O and reader boards to monitor alarm input points, relay output points and interface with access control readers. By offering a modular design, the system can be tailored to meet a wide range of applications while optimizing cost and installation.

The PW7K1IC comes with 2 on-board reader ports that support multiple reader communication protocols including Wiegand and OSDP (V2) Secure Channel Protocol (SCP). OSDP SCP is now supported across all the intelligent controller and reader board hardware. PW7000-series control panels and I/O boards are backwards compatible with PW6000-Series*.

PW7000-Series Access Control System.

FEATURES AND BENEFITS

SECURE
- Latest encryption standard support with TLS1.2 and OSDP (V2) Secure Channel Protocol
- Embedded Crypto Memory Chip to protect sensitive data

VERSATILE
- Backwards compatible with PW6000* controllers, reader boards, I/O boards and enclosures*
- On-board support for up to 2 readers (2 Doors) for PW7K1IC and up to 2 readers (1 Door) for PWLP1501

COMPREHENSIVE
- Wide variety of native integrations including wireless locks
- Extensive customization including If / Then macro capabilities

ADAPTABLE
- Modular design allows controllers and downstream boards to be mixed to fit the most demanding customer requirements
- Flexible power options for PWLP1501 and PWMR62E including PoE and PoE+
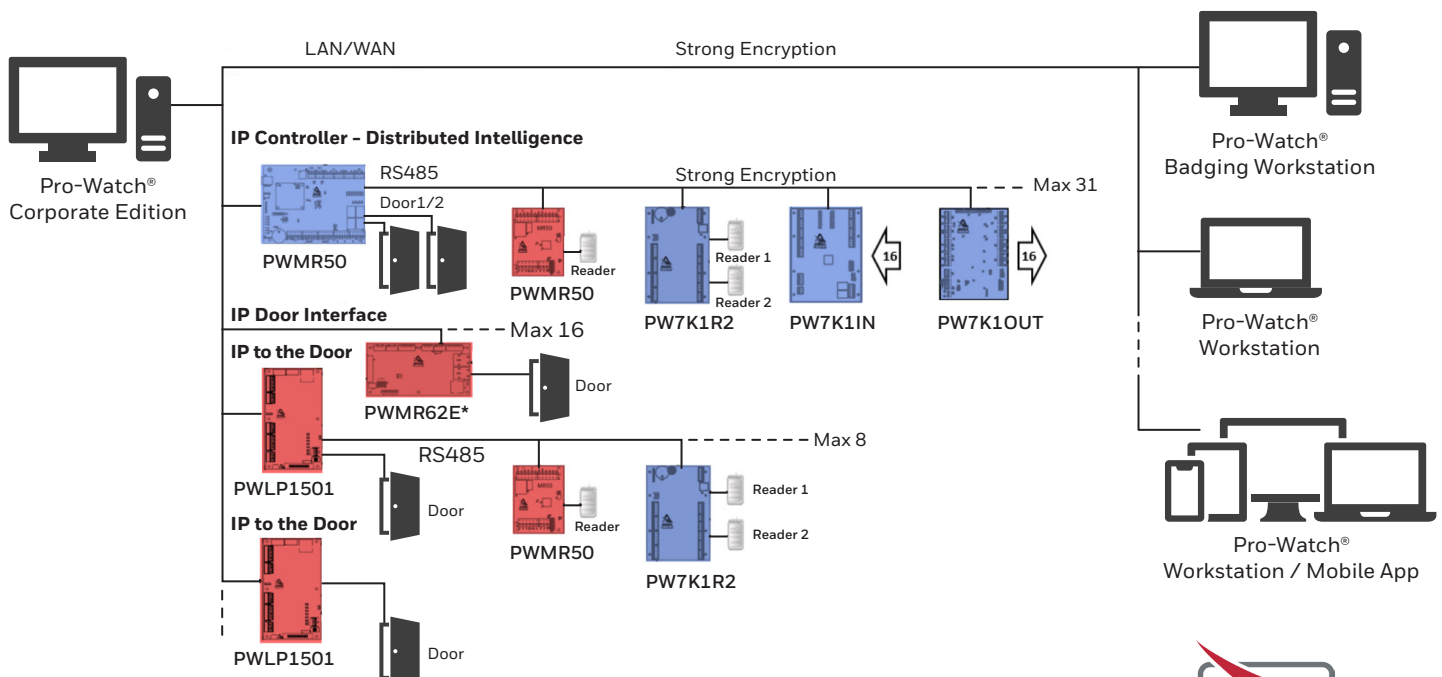
* Note: PW6K1IC board is based on Mercury's EP2500, PW7K1IC board is based on Mercury's LP1502 and includes extra reader/door connections. PW7K1IC board has 1 RS485 downstream bus. All Honeywell PW7000 Form Factor and Honeywell branded Mercury boards are backwards compatible with existing PW5000/PW6000 Enclosures.
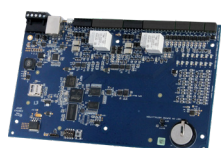
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SPECIFICATIONS

DESCRIPTION	PW7K1IC	PWLP1501	PWMR50	PWMR62E	PW7K1R2	PW7K1IN	PW7K 1OUT
Maximum # of Doors	**64	**17	1	2	2		
Maximum # of Readers On-board	2(*4)	2(*2)	1(*2)	(4) OSDP Only	2(*4)		
Maximum # of Cardholders	240,000	240,000					
Transaction Storage	50,000	50,000					
Access Levels per Cardholder	255	255					
On-board Inputs	8	2	2	6	8	16	2 (Pwr Fail+Tmp)
On-board Outputs	4	2	2	4	6	2	16
IP Protocol	ipv4 / ipv6	ipv4 / ipv6		ipv4 / ipv6			
OSDP(V2) SCP On-board	Yes	Yes	Yes	Yes	Yes		
Host Communication	10/100Mbps TLS1.2	10/100Mbps TLS1.2		10/100Mbps TLS1.2			
Primary Power	12 VDC 500mA max	PoE / PoE+ 12VDC 1.8A max	12-24 VDC 150mA max	PoE / PoE+ 12VDC 1.7A max	12-24 VDC 650mA max	12-24 VDC 250mA max	12-24 VDC 385A max
Operating Temperature	0-49 ºC	0-49 ºC	0-49 ºC	0-49 ºC	0-49 ºC	0-49 ºC	0-49 ºC
Operating Humidity	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC	5 to 85% RHNC
Dimensions (H x W x D)	9.0" x 5.5" x 1.0" 230 x 140 x 25mm	5.5" x 2.75" x 1.0" 140 x 70 x 25mm	2.75" x 4.25" x 1,0" 70 x 108 x 25mm	5.5" x 2.75" x 1.0" 140 x 70 x 24mm	9.0" x 5.5" x 1.0" 230 x 140 x 25mm	9.0" x 5.5" x 1.0" 230 x 140 x 25mm	9.0" x 5.5" x 1.0" 230 x 140 x 25mm
Compliance	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC	UL294, CE, FCC
Warranty	1 year	1 year	1 year	1 year	1 year	1 year	1 year

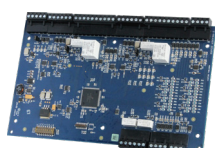*Note: Multi-dropped OSDP Readers (when supported) **Including Sub-panels
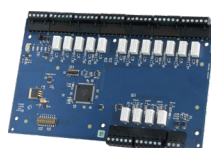
CONFIGURATION

LAN/WAN   Strong Encryption

Pro-Watch® Corporate Edition

IP Controller – Distributed Intelligence

RS485

Door1/2

PWMR50

PWMR50 — Reader

PW7K1R2 — Reader 1 / Reader 2

PW7K1IN   16

PW7K1OUT   16   Max 31

Strong Encryption

IP Door Interface

IP to the Door — Max 16

PWMR62E* — Door

PWLP1501 — Door

IP to the Door

PWLP1501 — Door

RS485 — Max 8

PWMR50 — Reader

PW7K1R2 — Reader 1 / Reader 2

Pro-Watch® Badging Workstation

Pro-Watch® Workstation

Pro-Watch® Workstation / Mobile App

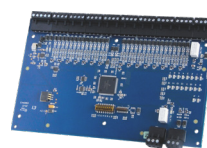* PWMR62E will be supported in Pro-Watch soon.

MERCURY™ Powered

PW7K1IC   PW7K1R2   PW7K1OUT   PW7K1IN

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FUNCTIONAL DESCRIPTION

The multi-port PW7K1IC is a dual card reader panel for controlling two connected doors and managing up to 64 doors/openings. Built with Authentic Mercury Technology (LP1502), the intelligent controller uses on-board Ethernet port to connect to the Honeywell server-based platform 'Pro-Watch'.

The intelligent controller performs access control, alarm management and scheduled operations, all in single package. With native connectivity, the high-performance PW7K1IC functions independently of the host for performing numerous access control applications and supports OSDP, OSDP Secure Channel, keypads, biometric readers, Wiegand, clock and data, F/2F and supervised F/2F reader technologies.

System configuration and setup are provided through Mercury software applications/tools. For a comprehensive and open Honeywell access control platform, and a reliable hardware platform running in a secure environment, the PW7K1IC is the clear solution. It delivers a complete security and access control solution as well as innovative application extensions, interoperability and data security.

* Note: Full native PW7000 mode (On-board Reader/Door support on IC board; OSDP (V2) Secure Channel; OSDP 4 readers; OSDP Push FW) Coming soon in Pro-Watch.

ORDERING

PW-7000 INTELLIGENT CONTROL SYSTEM	
PART NUMBER	**DESCRIPTION**
PW7K1IC	PW-7000 Intelligent Controller – Capacity for 32 I/O or Reader Boards
PW7K1IN	PW-7000 16 Input Module
PW7K1OUT	PW-7000 16 Relay Output Module
PWMR50	PW-7000 Single Reader Module (only for use in PW5K1ENC4)
PW7K1R2	PW-7000 Dual Reader Module

PW-7101 INTELLIGENT CONTROL SYSTEM	
PART NUMBER	**DESCRIPTION**
PWLP1501	PWLP1501 Intelligent IP Access Controller
PWMR62E	PWMR62E IP Door Reader Module (1 Door)

ENCLOSURES AND ACCESSORIES	
PART NUMBER	**DESCRIPTION**
PW5K2ENC1	PW-Series high density enclosure (power supply and battery not included)
PW5K2ENC2	PW-Series high density enclosure for 19" rack installations (power supply and battery not included)
PW7WPSU230	PW-Series 220 VAC, 4 amp power supply for PW5K2ENC1 and PW5K2ENC2 enclosures
PW5K1ENC3	PW-Series remote enclosure with plug-in with 110V transformer/power supply
PW5K1ENC4	Single reader enclosure (for use with PWMR50)
PW5K1DCC	PW-Series daisy chain cable

THE FUTURE IS WHAT WE MAKE IT

HSI-PW7K-02-ME(0221)DS-C
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