

# HUNDURE



## SMARTPHONE IS “ ACCESS KEY ” !

NFC SERIES - Efficiently manage your employees' time and attendance!



## HAMS

### HAMS Access Control Management System

Hundure has decades' professional experiences on serving the access control markets. Its HAMS software combines five main management systems, including access control, attendance, elevator, parking and patrol, which share the same database. It is able to meet all of needs that a company is eager to manage different applications within a single platform. This software is the best choice for enterprises and institutions to upgrade their intelligent management system.

**Access Control Management** : Able set authorizations by door group or department group.

**Time & Attendance Management** : Quickly accrue records to get attendance report or duty on/off reports.

**Elevator Control Management** : Able set floor authorizations and access schedules.

**Parking Control Management** : Able avoid different cars in and out by the same card.

**Patrol Management** : Able set patrol routes and time to ensure security.

Hardware:

Access Control : RAC(HAC)-controller series + PXR- reader series

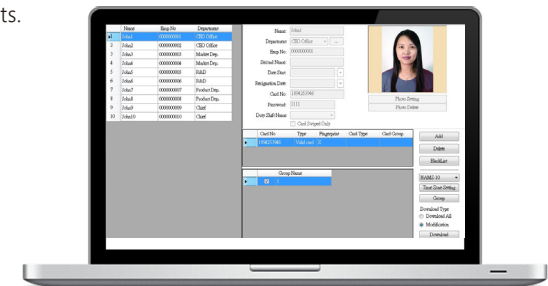
Time Attendance : HTA-time attendance recorder series

Elevator : HDE-elevator series + MCU-digital output controller+ PXR-reader series

Parking : HDP-parking series + PXR-reader series

Fingerprint / Finger Vein Readers : Hundure Fingerprint / Finger vein controllers and control panels can connect fingerprint /

Finger vein readers as a slave reader or an access point



## HWMS

### HWMS Hundure Web Management System

HWMS is a friendly web-based management system. User can control devices directly from the web and check the history log. Since the server acts as the system core, devices can be controlled directly from the web to perform real-time data collection and it's easy to integrate a wide range of access controllers, time attendance recorders and biometric devices.

Hardware:

Supports specific models of standalone access controllers, multi-door control panels, time attendance recorders and biometric devices.



## HQMS

### HQMS Access Control Management System (SQL Version)

With modular design, HQMS is a smart SQL-based Access Control Management System for access control, elevator and parking lots. It supports multi-lingual operation interfaces, Client/Server architecture, multi-person simultaneous login system, and client-modified data can be promptly responded to controller and reader device. HQMS supports TCP/IP devices and communicates with devices through multiple threads to have maximum efficiency and immediacy.

Hardware:

Supports specific models of standalone access controllers, biometric devices, two door control panel, time attendance recorders and elevator control panel.

# SOFTWARE



## Mission Statement

To create a user-friendly, convenient, reliable and safe environment for humans.



### **EVS**

#### **EVS Visitor Management System**

EVS can be pre-registered by the employee, or it can be registered by the visitor on-site, which simplifies the process of manual review and saves the visitor waiting time. Completely implementing visitor stay controls and access controls that can avoid potential threats and reduce the chance of accidents. When in emergency, you can immediately know visitors who have not left. The visitor data is easily saved, reviewed and analyzed that can be exported as various statistical reports. It is suitable for general companies, member centers, buildings and factories, or even conference registrations.

Hardware:

Supports specific models of access controllers and QR Code reader.



### **HEMS**

#### **HEMS-68 Energy Management System**

In order to reduce carbon emissions, Hundure develops energy controller ECU-680PM and RLY-66 to meet power saving demands. It is a great solution to save electricity by upgrading system into active power saving system from passive electrical control.

Hardware :

ECU-680 Energy Controller / RLY-66 series relay outputs



### **HTMS**

#### **HTMS-86 Time and Attendance Management System**

HTMS-86 is a brand new time and attendance management system. It supports proximity and fingerprint type of time and attendance recorders. This system combines time and attendance module for time and attendance application and generates reports; supports TCP/IP and RS-485 communication interfaces; provides English, Traditional Chinese, Simplified Chinese, and supports language translation function for clients who want to translate the software to their own language.

Programmed in Visual studio.net, C# object-oriented program design. Due to different levels of customer, we may provide the most flexible customization to meet their special requests.







Hardware :

HTA-time attendance recorder series

To know software supports hardware models, please access to our website  
<http://www.hundure.com> (PRODUCTS/Hardware Support Matrix) or scanning QR Code.





Series	Single Door - Access Controller			Single Door - Access Controller	Bluetooth Single Door - Access Controller	Single Door - LCD Access Controller
Image	 (1) (2)	 (1) (2)				
Spec. \ Model No.	(1) <b>HAC-512</b> (2) <b>RAC-520</b>	(1) <b>RAC-920</b> (2) <b>RAC-930</b>	<b>RAC-A10</b>	<b>HAC-710</b>	<b>HAC-A12-BE</b>	<b>HAC-100</b> <b>HAC-101<sup>b</sup></b>
Read Format	EM / Mifare	EM / Mifare	Mifare	EM / Mifare	EM / Mifare / Bluetooth	EM / Mifare
Interface (To PC)	RS-485	RS-485	RS-485	TCP/IP	RS-485, TCP/IP	HAC-100: TCP/IP HAC-101: RS-485, TCP/IP
Interface (To Reader)	HAC-512:T2 / W26 RAC-520:T2	T2	T2 / W26	T2 / W26	T2 / W26	T2 / W26
Comm. Interface (To CCTV)	-	-	-	-	-	-
Cardholders	HAC-512: 5,000 RAC-520: 1,024	1,024	1,024	20,000	20,000	40,000
Transactions	HAC-512: 5,000 RAC-520: 800	800	800	40,000	40,000	40,000
Input Ports	3	3	3	3	3	3
Built-in Relays	1	1	1	1	2	1
Optional Output <sup>1</sup>	ACU-30	ACU-30	ACU-30	ACU-30	ACU-30	ACU-30, MCU-0016 (HAC-101)
RTC	V	V	V	V	V	V
Time Zones / Time Schedules	-	-	-	128 / 128	128 / 128	256
Holiday Schedules	-	-	-	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)
Unlock Door Time Schedules	-	-	-	V	V	V
Ingress protection	-	IP65	-	IP65 <sup>a</sup>	-	-
Power Input	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Operating Temperature	-10°C ~ 70°C / 14°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-40°C ~ 70°C / -40°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F
Relative Humidity	20% ~ 80% (Non-condensing)			20% ~ 80% (Non-condensing)		
Dimensions (LxWxH / mm)	HAC-512:112 x 77 x 21 RAC-520:120 x 76 x 23	120 x 77 x 22	120 x 80 x 27	130 x 45 x 25	120 x 80 x 27	140 x 100 x 31

# Access Control

- Single Door Control
- 2 Door Control
- 4 Door Control
- Multi Door Control

<sup>1</sup> ACU-30 is an optional item with 2 relays; MCU-0016 is an external item to expand output ports.

<sup>a</sup> For HAC-710PE-WR, HAC-710PM-WR models only.

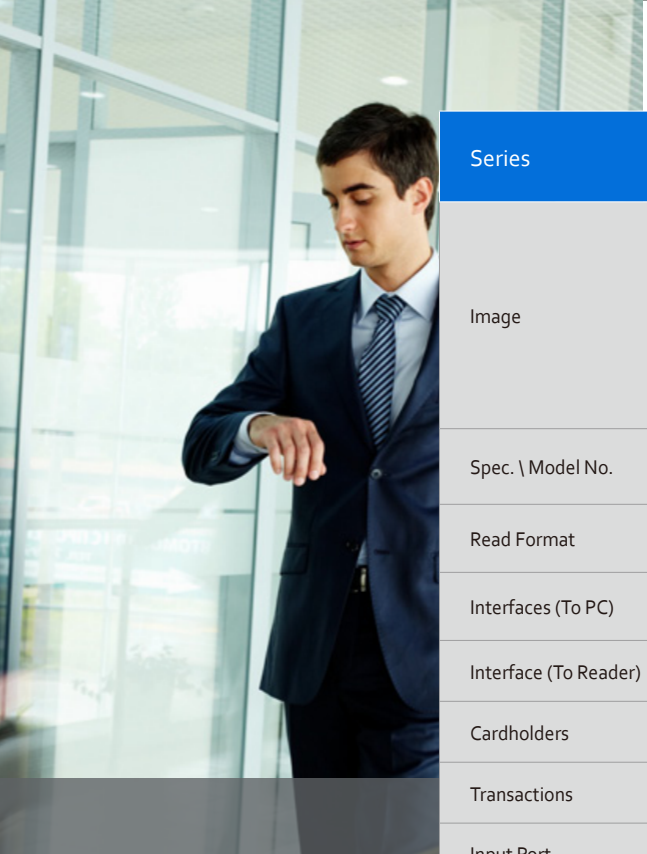
<sup>b</sup> HAC-101 also supports the elevator control.





Series	Single Door - LCD Access Controller			2 Door Control Panel	4 Door Control Panel	Web-based 4 Door Control Panel	4/8/16 Door Control Panel
Image		 (1) (2)	 (1) (2)				
Spec. \ Model No.	<b>RAC-940</b>	(1) <b>RAC-960</b> (2) <b>RAC-970</b>	(1) <b>RAC-971</b> (2) <b>RAC-971Q</b>	<b>RAC-2000WS</b> <b>RAC-2000WSN</b>	<b>RAC-4600</b> <b>RAC-4600N / 8M</b>	<b>HAC-4200N</b>	<b>RAC-2400</b> <b>RAC-2400N</b>
Read Format	EM / Mifare	EM / Mifare	(1) EM / Mifare / NFC <sup>c</sup> (2) EM/Mifare/QR Code/NFC <sup>c</sup>	-	-	-	-
Interface (To PC)	RS-232 / 485	RS-485, TCP/IP	RS-485, TCP/IP	RAC-2000WS:RS-485 RAC-2000WSN:TCP/IP	RAC-4600:RS-485 RAC-4600N:TCP/IP	TCP/IP	RAC-2400:RS-485 RAC-2400N:TCP/IP
Interface (To Reader)	T2 / W26	T2 / W26	T2 / W26	T2 / Wiegand / RS-485 / OSDP <sup>d</sup>	T2 / Wiegand / RS-485	T2 / Wiegand / RS-485	RS-485 (L-Type)
Comm. Interface (To CCTV)	RS-485	RS-485	RS-485	-	-	-	-
Cardholders	10,000	40,000	40,000	15,000	40,000 / 100,000 (8M)	100,000	50,000
Transactions	10,000	100,000	100,000	40,000	100,000 / 200,000 (8M)	100,000	80,000
Input Ports	3	3	3	8	9	9	2
Built-in Relays	1	1	1	4	8	8	1
Optional Output <sup>2</sup>	ACU-30	ACU-30	ACU-30	-	-	-	ACU-100
RTC	V	V	V	V	V	V	V
Time Zones / Time Schedules	16 / 16	128 / 128	128 / 128	128 / 128	256 / 256	256 / 256	256 / 256
Holiday Schedules	64 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (64 Groups)
Unlock Door Time Schedules	V	V	V	V	V	V	V
Ingress protection	IP65	IP65	IP65	-	-	-	-
Power Input	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V/1A	DC12V / 1A
Operating Temperature	0°C ~ 55°C / 32°F ~ 131°F	0°C ~ 55°C / 32°F ~ 131°F	-10°C ~ 70°C / 14°F ~ 158°F	-40°C ~ 70°C / -40°F ~ 158°F	-40°C ~ 70°C / -40°F ~ 158°F	-40°C ~ 70°C / -40°F ~ 158°F	-10°C ~ 55°C / 14°F ~ 131°F
Relative Humidity	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)
Dimensions (LxWxH / mm)	130 x 100 x 27	130 x 100 x 27	130 x 100 x 27	150 x 210 x 29	150 x 210 x 40	150 x 210 x 29	150 x 210 x 29

<sup>2</sup> ACU-30 is an optional item with 2 relays; ACU-100 is an optional single door panel for interfacing with T2/Wiegand Reader.

<sup>c</sup>For RAC-971PM/RAC-971QM Mifare model only; need to work with Android APP.

<sup>d</sup> For RAC-2000WS-OSP, RAC-2000WSN-OSP OSDP models only.



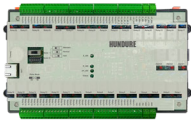

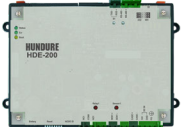



Series	DIY Type Time Attendance Recorder		LCD Time Attendance Recorder		
Image					
Spec. \ Model No.	<b>HTA-830</b> <b>HTA-830-Y</b>	<b>HTA-840</b>	<b>HTA-850</b>	(1) <b>HTA-860</b> (2) <b>HTA-870</b>	<b>HTA-871</b>
Read Format	HTA-830 : EM / Mifare HTA-830-Y : Mifare	EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare / NFC <sup>e</sup>
Interfaces (To PC)	HTA-830 : TCP/IP HTA-830-Y : Wi-Fi	TCP/IP (PoE)	TCP/IP	RS-485, TCP/IP	RS-485, TCP/IP
Interface (To Reader)	-	-	T2 / W26	T2 / W26	T2 / W26
Cardholders	15,000	15,000	15,000	22,000	22,000
Transactions	40,000	40,000	150,000	150,000	150,000
Input Port	-	-	1 (Exit Button)	1 (Exit Button)	3 (Exit Button x 1, Spare x 2)
Built-in Relay	1	1	-	1	1
Optional Output <sup>3</sup>	-	-	ACU-30	ACU-30	ACU-30
RTC	V	V	V	V	V
Duty Timetables / Siren Schedules	16 / 32	16 / 32	32 / 32	32 / 32	32 / 32
ISP Function	V	V	V	V	V
Ingress Protection	-	-	-	IP65	-
Power Input	DC12V / 1A	PoE (Hub)	DC12V / 1A	DC12V / 1A	DC12V / 1A
Dimensions (LxWxH / mm)	160 x 100 x 40 (Without base)		142 x 200 x 38	130 x 100 x 27	130 x 100 x 27

# Time Attendance

- DIY Type Time Attendance
- LCD Time Attendance

<sup>3</sup> ACU-30 is an optional item with 2 relays.  
<sup>e</sup> For HTA-871PM Mifare model only; need to work with Android APP.



Series	Elevator Control Panel				Parking Control Panel	Energy Controller
Image						
Spec. \ Model No.	<b>HDE-120</b>	<b>HDE-100WS</b>	<b>HDE-200</b>	<b>HDE-200N</b>	<b>HDP-100WS</b>	<b>ECU-680</b>
Read Format	-	-	-	-	-	Mifare
Interface (To PC)	TCP/IP & RS-485	RS-232 / RS-485	RS-485	TCP/IP	RS-485	RS-485
Interface (To Reader)	Wiegand / RS-485	T2 / Wiegand / RS-485	RS-485 (L-Type)	RS-485 (L-Type)	T2 / Wiegand / RS-485	-
Cardholders	100,000	5,000	30,000	60,000	10,000	1,024
Transactions	30,000	6,000	100,000	100,000	5,000	800
Input Ports	3	3	2	1	8	1
Built-in Relays	3 + 32 (for 32 floor control)	4	1	-	4	-
Optional Output <sup>4</sup>	MCU-0016	MCU-0016	MCU-0016	MCU-0016	-	RLY-66 series
Elevator Control (max.)	96 floors	64 floors	160 floors	160 floors	-	-
RTC	√	√	√	√	√	√
Time Zones / Time Schedules	256 / 256	256 / 128	254 / 254	254 / 254	128 / 128	8 / 8
Holiday Schedules	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (64 Groups)	100 days / Group (64 Groups)	100 days / Group (2 Groups)	Unrestricted time schedules x 4
ISP Function	√	√	√	√	√	√
Power Input	DC 12V/2.5A	DC12V/1A	DC12V/1A	DC12V/1A	DC12V/1A	DC12V/1A
Operating Temperature	-40°C ~ 70°C / -40°F ~ 158°F		-10°C ~ 55°C / 14°F ~ 131°F		-40°C ~ 70°C / -40°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F
Dimensions (LxWxH / mm)	150 X 245 X 33	150 x 210 x 29	150 x 210 x 29	150 x 210 x 29	150 x 210 x 29	86 x 86 x 27

# Applications




- Elevator
- Parking
- Power Saving

<sup>4</sup> MCU-0016 and RLY-66 series are external items to expand output ports.



# Biometric Authentication





- Finger Vein
- Fingerprint

Series	Single Door-Access Controller		Reader
Image			
Spec. \ Model No.	<b>RAC-820FV</b>	<b>RAC-852FV</b>	<b>PXR-82FV</b>
Biometrics	Finger Vein	Finger Vein	Finger Vein
User / Capacity	6,000 users (12,000 finger vein templates)	6,000 users (12,000 finger vein templates)	6,000 users (12,000 finger vein templates)
Read Format	Mifare	EM / Mifare	Mifare
Interface (To PC)	TCP/IP	RS-485, TCP/IP	W26/RS-485 (To controller); TCP/IP (finger vein)
Interface (To Reader)	T2 / W26	T2 / W26	-
Interface (To CCTV)	-	RS-485	-
Cardholders	18,000	18,000	-
Transactions	150,000	150,000	-
Input Port	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	1 (Case Sensor)
Built-in Relay	1	1	-
Optional Output <sup>5</sup>	ACU-30	ACU-30	-
RTC	V	V	-
Time Zones / Time Schedules	128 / 128	128 / 128	-
Holiday Schedules	100 days / Group (2 Groups)	100 days / Group (2 Groups)	-
Unlock Door Time Schedules	V	V	-
Power Input	DC12V/1.5A	DC12V/1.5A	DC12V/1.5A
Dimensions (LxWxH / mm)	135 x 75 x 91	142 x 200 x 91	135 x 75 x 91

<sup>5</sup> ACU-30 is an optional item with 2 relays  
<sup>6</sup> ACU-30 is an optional item with 2 relays  
<sup>f</sup> Only HAC-710PEF-WR and HAC-710PMF-WR models support IP65 ingress protection.  
<sup>g</sup> For RAC-971PMF Mifare model only; need to work with Android APP.



Series	Single Door-Access Controller					Reader
Image	 (1) (2)					 (1) (2)
Spec. \ Model No.	(1) <b>RAC-810F</b> (2) <b>RAC-820F</b>	<b>HAC-710F<sup>f</sup></b>	<b>RAC-960F</b>	<b>RAC-970F</b>	<b>RAC-971F</b>	(1) <b>PXR-81F</b> (2) <b>PXR-82F</b>
Biometrics	Fingerprint	Fingerprint	Fingerprint	Fingerprint	Fingerprint	Fingerprint
User / Capacity	950 users / 1,900 templates or 4,750 users / 9,500 templates (option)					
Read Format	RAC-810F: Mifare RAC-820F: EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare / NFC <sup>9</sup>	PXR-81F: Mifare PXR-82F: EM / Mifare
Interface (To PC)	TCP/IP	TCP/IP	RS-485, TCP/IP	RS-485, TCP/IP	RS-485, TCP/IP	W26 / RS-485 (To controller); TCP/IP (fingerprint data)
Interface (To Reader)	T2 / W26	T2 / W26	T2 / W26	T2 / W26	T2 / W26	-
Interface (To CCTV)	-	-	RS-485	RS-485	RS-485	-
Cardholders	18,000	20,000	40,000	40,000	40,000	-
Transactions	150,000	40,000	100,000	100,000	100,000	-
Input Port	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	1 (Case Sensor)
Built-in Relay	1	1	1	1	1	-
Optional Output <sup>6</sup>	ACU-30	ACU-30	ACU-30	ACU-30	ACU-30	-
RTC	V	V	V	V	V	-
Time Zones / Schedules	128 / 128	128 / 128	128 / 128	128 / 128	128 / 128	-
Holiday Schedules	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	100 days / Group (2 Groups)	-
Unlock Door Time Schedules	V	V	V	V	V	-
Power Input	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Dimensions (LxWxH / mm)	RAC-810F: 141 x 75 x 49 RAC-820F: 135 x 75 x 41	219 x 49 x 47	130 x 140 x 41	130 x 140 x 41	130 x 140 x 41	PXR-81F: 141 x 75 x 49 PXR-82F: 135 x 75 x 41

Series	Time & Attendance Recorder				
Image					
Spec. \ Model No.	<b>HTA-502F-N (-Y, -V, -NB)</b>	<b>HTA-852F</b>	<b>HTA-860F</b>	<b>HTA-870F</b>	<b>HTA-871F</b>
Biometrics	Fingerprint	Fingerprint	Fingerprint	Fingerprint	Fingerprint
User / Capacity	1,500 users / 3,000 templates	950 users /1,900 templates or 4,750 users / 9,500 templates (option)	950 users /1,900 templates or 4,750 users / 9,500 templates (option)	950 users /1,900 templates or 4,750 users / 9,500 templates (option)	950 users / 1,900 templates
Read Format	EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare / NFC <sup>i</sup>
Interface (To PC)	N : TCP/IP ; Y : Wi-Fi ; V : TCP/IP PoE <sup>h</sup> ; NB : TCP/IP & Battery, USB Slave / USB Host	TCP/IP	RS-485, TCP/IP	RS-485, TCP/IP	RS-485, TCP/IP
Interface (To Reader)	-	T2 / W26	T2 / W26	T2 / W26	T2 / W26
Interface (To CCTV)	-	RS-232 / 485	RS-485	RS-485	RS-485
Cardholders	3,000	15,000	22,000	22,000	22,000
Transactions	100,000	150,000	150,000	150,000	150,000
Input Port	1 (Exit Button)	1 (Exit Button)	1 (Exit Button)	1 (Exit Button)	3 (Exit Button x 1, Spare x 2)
Built-in Relay	1	-	1	1	1
Optional Output <sup>7</sup>	ACU-30	ACU-30	ACU-30	ACU-30	ACU-30
RTC	V	V	V	V	V
Duty Timetables / Siren Schedules	32 / 32	32 / 32	32 / 32	32 / 32	32 / 32
Power Input	DC5V / 1A, PoE <sup>h</sup>	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Dimensions (LxWxH / mm)	160 x 134 x 34	142 x 200 x 38	130 x 140 x 41	130 x 140 x 41	130 x 140 x 41

<sup>7</sup> ACU-30 is an optional item with 2 relays.

<sup>h</sup> The power input of PoE model (HTA-502F-V) is is powered from PoE Hub.

<sup>i</sup> For HTA-871PMF Mifare model only, need to work with Android APP.



Series		Glass Faceplate Proximity Reader				
Image						
Spec. \ Model No.		<b>PXR-10</b> <b>PXR-10K</b>	<b>PXR-12</b> <b>PXR-12K</b>	<b>PXR-13</b> <b>PXR-13K</b>	<b>PXR-14</b> <b>PXR-14K</b>	<b>PXR-14K-D</b>
Read Format		EM / Mifare	EM / Mifare	EM / Mifare	Mifare	Mifare
Reader Interface		PXR-10: W, S(M) PXR-10EK: W PXR-10MK: W&S	PXR-12: T, W, S(M), L(M) PXR-12K: T, W, S(M)	PXR-13: W, S(M) PXR-13K: T, W, S(M)	PXR-14: W, S PXR-14K: W&S	W&S
Keypad		PXR-10K	PXR-12K	PXR-13K	PXR-14K	V
Keypad Input Ports	Non-L-Type	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)
	L-Type	-	-	-	-	-
Output Ports (L-TYPE)	Built-in Relay	-	-	-	-	-
	Optional Output <sup>8</sup>	-	ACU-30	-	-	-
Ingress protection		-	-	-	-	-
Power Input		DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Operating Temperature		-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F
Relative Humidity		20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)
Dimensions (LxWxH / mm)		<sup>j</sup> 86 x 86 x 24	<sup>k</sup> 120 x 75 x 24	<sup>k</sup> 120 x 75 x 24	<sup>L</sup> 120 x 88 x 24	<sup>L</sup> 120 x 88 x 24
Case Color		BL	BL, WH	BL	BL	BL

# Reader

- Glass Faceplate Reader
- Waterproof Reader
- Bluetooth Reader
- Proximity Reader
- LCD Proximity Reader
- QR Code Reader
- Vandal-Resistant Reader
- Scramble Keypad Reader

※ Reader Interfaces T:T2, T(E) : T2 (EM) W:Wiegand, W(E) : Wiegand (EM) S:RS-485, S(M) : RS-485 (Mifare) L:L-Type, L(M):L-Type(Mifare)  
 ※ Case Color BL: Black, DG: Dark Grey, SG: Dark Grey & Silver, GO: Metallic Gold, SV: Silver, E: Metallic Silver, WH: White

<sup>8</sup> ACU-30 is an optional item with 2 relays.

<sup>j</sup> Compatible with 86 Type Back Box (Faceplate Size: 86 x 86 x 13 (mm); Backside Box Size: 65 x 58 x 24 (mm)).

<sup>k</sup> Compatible with 120 Type Back Box (Faceplate Size: 120 x 75 x 13 (mm); Backside Box Size: 70 x 42 x 24 (mm)).

<sup>L</sup> Compatible with 86 Type Back Box (Faceplate Size: 122 x 88 x 13 (mm); Backside Box Size: 65 x 58 x 24 (mm)).

Series		IP66 Waterproof	Proximity Reader			Proximity Reader	
Image							
Spec. \ Model No.		<b>PXR-A1-WR</b>	<b>PXR-50</b>	<b>PXR-51 PXR-51K</b>	<b>PXR-52 PXR-52K</b>	<b>PXR-A1 PXR-A1K</b>	<b>PXR-62</b>
Read Format		EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare	Mifare	EM / Mifare
Reader Interface		W&S	T(E), W(E), S(M)	W, S(M)	T, W, S, L	W, S	T, W, S, L
Keypad		-	-	PXR-51K	PXR-52K	PXR-A1K	-
Keypad Input Ports	Non-L-Type	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)
	L-Type	-	-	-	3 (Case Sensor, Exit Button, Door Sensor)	-	3 (Case Sensor, Exit Button, Door Sensor)
Output Ports (L-TYPE)	Built-in Relay	-	-	-	1 relay for lock	-	1 relay for lock
	Optional Output <sup>9</sup>	-	-	-	ACU-30	-	ACU-30
Ingress protection		IP66	-	-	-	-	-
Power Input		DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Operating Temperature		-20°C ~ 70°C / -4°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F
Relative Humidity		20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)
Dimensions (LxWxH / mm)		120 x 80 x 27	95 x 44 x 16	112 x 77 x 21	120 x 76 x 23	120 x 80 x 27	120 x 76 x 27
Case Color		BL	BL	BL	DG	BL	DG, SG







<sup>9</sup> ACU-30 is an optional item with 2 relays

Series		Low Profile Reader	Proximity Reader				LCD Proximity Reader
Image			 (1) (2)				 (1) (2)
Spec. \ Model No.		<b>PXR-10-THN</b> <b>PXR-10K-THN</b>	(1) <b>PXR-66</b> (2) <b>PXR-68</b>	<b>PXR-70*</b>	<b>PXR-92</b> <b>PXR-92K</b>	<b>PXR-93</b> <b>PXR-93K</b>	(1) <b>PXR-94K</b> (2) <b>PXR-97K</b>
Read Format		EM / Mifare	PXR-66: Mifare PXR-68: Card Slot	EM / Mifare	EM / Mifare	EM / Mifare	EM / Mifare
Reader Interface		T, W	PXR-66: S, L PXR-68: L	T, W, S, L	T, W, S, L, OSDP <sup>m</sup>	T, W, S, L	PXR-94: S, L PXR-97: L(M)
Keypad		PXR-10K-THN	-	-	PXR-92K	PXR-93K	V
Keypad Input Ports	Non-L-Type	4 (Case Sensor x 1, LED Control x 2, Buzzer x 1)	-	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)
	L-Type	-	PXR-66: 2 (Exit Button, Door Sensor) PXR-68: none	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)
Output Ports (L-TYPE)	Built-in Relay	-	PXR-66: 1 relay for lock PXR-68: none	1 relay for lock	1 relay for lock or doorbell	1 relay for lock or doorbell	1 relay for lock or doorbell
	Optional Output <sup>10</sup>	-	PXR-66: ACU-30 PXR-68: RLY-66 series	ACU-30	ACU-30	ACU-30	ACU-30
Ingress protection		IP65	-	-	IP65	IP65	IP65
Power Input		DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Operating Temperature		-20°C ~ 70°C / -4°F ~ 158°F	-10°C ~ 55°C / 14°F ~ 131°F	-10°C ~ 55°C / 14°F ~ 131°F	-10°C ~ 55°C / 14°F ~ 131°F	-10°C ~ 55°C / 14°F ~ 131°F	0°C ~ 55°C / 32°F ~ 131°F
Relative Humidity		20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)
Dimensions (LxWxH / mm)		86 x 86 x 15	86 x 86 x 28	146 x 42 x 24	120 x 77 x 22	120 x 77 x 22	130 x 100 x 27
Case Color		BL	PXR-66: DG, SG PXR-68: DG, SB	GO	BL	SV	PXR-94: BL PXR-97: SV

<sup>10</sup> ACU-30 is an optional item with 2 relays ; RLY-66 has built-in high current load relay(s).

<sup>m</sup> For PXR-92ES-OSP, PXR-92ESK-OSP models only.

\* Metal case.

Series		Proximity Reader	Bluetooth Reader	QR Code Reader		Vandal-Resistant Reader	Scramble Keypad Reader
Image							
Spec. \ Model No.		<b>PXR-71</b> <b>PXR-71K</b>	<b>PXR-92-BE</b>	(1) <b>PXR-Q1</b> (2) <b>PXR-Q2</b>	<b>PXR-Q3</b>	<b>PXR-K1</b>	<b>PXR-RN</b>
Read Format		EM / Mifare	Mifare / Bluetooth / NFC	EM (PXR-Q1) / Mifare / QR Code	Mifare / QR Code	Mifare	EM / Mifare
Reader interface		W, S	W&S, L	PXR-Q1: W&S, L PXR-Q2: L	W&S	W&S	W&S
Keypad			-	-	-	V	V (Scramble)
Input Ports	Non-L-Type	1 (Case Sensor)	1 (Case Sensor)	1 (Case Sensor)	-	1 (Case Sensor)	1 (Case Sensor)
	L-Type	-	3 (Case Sensor, Exit Button, Door Sensor)	3 (Case Sensor, Exit Button, Door Sensor)	-	-	-
Output Ports (L-Type)	Built-in Relay	-	1 relay for lock	1 relay for lock	-	-	-
	Optional Output <sup>11</sup>	-	ACU-30	ACU-30/90	-	-	-
Ingress protection		IP65 <sup>n</sup>	IP65	-	-	IP65, IK08	-
Power Input		DC12V / 1A	DC12V / 1 A	DC12V / 1A	DC12V / 1A	DC12V / 1A	DC12V / 1A
Operating Temperature		-40°C ~ 70°C / -40°F ~ 158°F	-10°C ~ 70°C / 14°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F	-20°C ~ 70°C / -4°F ~ 158°F
Relative Humidity		20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)	20% ~ 80% (Non-condensing)
Dimensions (LxWxH / mm)		130 x 45 x 25	120 x 77 x 22	PXR-Q1 : 86 x 86 x 24 <sup>o</sup> PXR-Q2 : 120 x 75 x 24 <sup>p</sup>	<sup>q</sup> Front: 86 x 86 x 39 Side: 69 x 66 x 39	122 x 88 x 27	122 x 88 x 28
Case Color		DG	BL	BL	BL	DG	BL





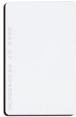

<sup>11</sup> ACU-30/ACU-90 is an optional item with 2 relays.

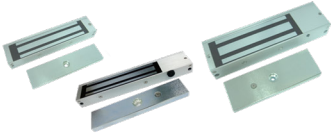
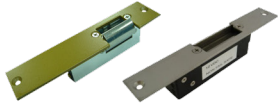





<sup>n</sup> For PXR-71-WR, PXR-71K-WR models only.









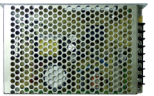
<sup>o</sup> Compatible with 86 Type Back Box (Faceplate Size: 86 x 86 x 13 (mm); Backside Box Size: 65 x 58 x 24 (mm)).

<sup>p</sup> Compatible with 120 Type Back Box (Faceplate Size: 120 x 75 x 13 (mm); Backside Box Size: 65 x 58 x 24 (mm)).

<sup>q</sup> Compatible with 86 Type Back Box.


Series	Digital I/O Control Panel			Energy Saving Relays	Single Door Panel	Alarm	Cards		Key Fob	
Image										
Model No.	<b>MCU-0008</b>	<b>MCU-0016</b>	<b>ACU-30</b>	<b>RLY-66 Series</b>	<b>ACU-100</b>	<b>LD-95LS</b>	<b>EM Card</b>	<b>Mifare Card</b>	<b>EM</b>	<b>Mifare</b>
Description	8 Relays	16 Relays	2 Relays	1, 2 Relays	4 Inputs , 2 Relays	DC 10 ~ 14V	125KHz	13.56MHz	125KHz	13.56MHz


Series	Electromagnetic Locks	Electric Strike	Electric Bolt	Contactless Exit Switch			
Image							
Model No.	<b>MDL-300H / 100S / 200S</b>	<b>ESL-100 / 200</b>	<b>EBL-100</b>	<b>HPB-10A</b>	<b>HPB-10E</b>	<b>HPB-11E</b>	<b>HPB-C2A</b>
Description	300 / 600 / 1200 LB	Iron / Stainless Steel	Aluminum	Infrared Proximity	Infrared Proximity	Capacitive Proximity	Infrared Proximity


Series	Comm. Converter				Mifare / EM Encoder		Finger Vein / Fingerprint Enroller		Power Supply
Image									
Model No.	<b>EPC-409</b>	<b>EPC-408io</b>	<b>EPC-408</b>	<b>EPC-406</b>	<b>IM-1100U</b>	<b>IE-1000</b>	<b>FV-100</b>	<b>FM-800</b>	<b>PSU-330</b>
Description	TCP/IP ↔ 232/485	TCP/IP ↔ 485	TCP/IP ↔ 422/485	USB ↔ 422/485	Mifare, USB Interface	EM, RS-232	Finger Vein	Fingerprint	Output DC13.8V, 3.5A


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