Pegasus

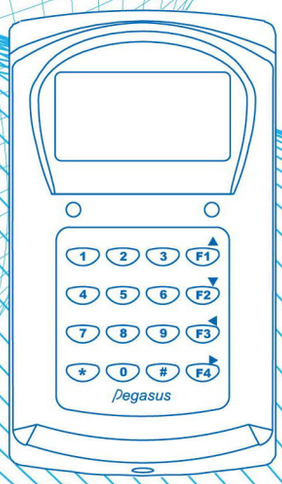
Access Control / Time Attendance System

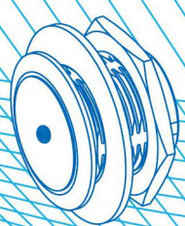
ESD / Lift / Car Parking / Prepaid Access Control System

RFID Module / TCP/IP

Long Range RFID: 433.9MHz / 915MHz / 2.4GHz

Biometric





FM 39868

About us

Pongee is one of the leading professional manufacturer specialized in researching and developing in field of signal processing and auto identification products in Taiwan, especially focus on Access Control and Time & Attendance systems. "***Pegasus***" brand is registered in Taiwan and many countries by ***Pongee Industries Co., Ltd.*** since 1987 as the famous brand in the world for marketing Pongee's related access products.

Also Pongee provides and develops a complete series of biometric, car parking, lift access system, prepaid value card system, proximity card readers either Stand-alone (computer off-line) or networking (computer on-line) with the associated multi-channels controllers, electronic Locks....etc. to be applied in simple access control, central controlled building automation system, time recorder, ATM foyer access ...etc. Also, Pongee supplies the controller are functional expandable to be interfaced with more high technology identification devices such as Proximity, Wiegand, RS-485, RS-232, ABA, USB reader & UHF RFID card reader which can identify the card for vehicle access control.

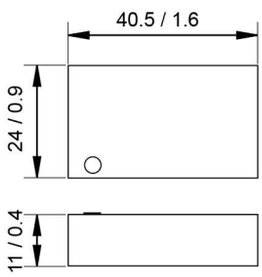
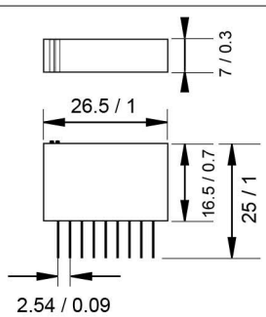
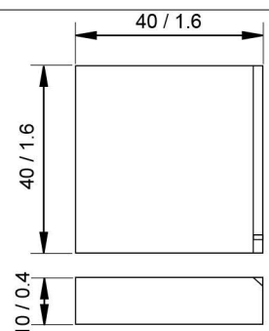
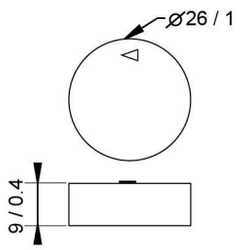
Pongee consistently strives to do the best in the development and sales of high quality, high technology and reliable products for customers. Volumes OEM or technical challenged ODM are heartily welcomed.

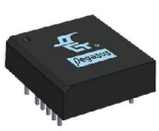
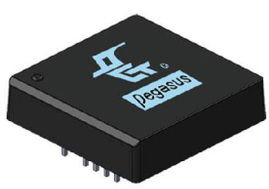
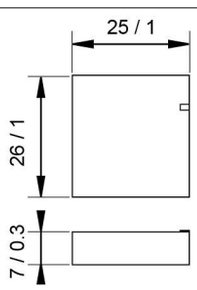
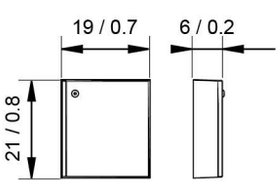
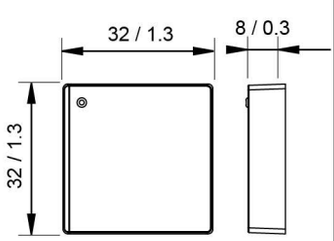
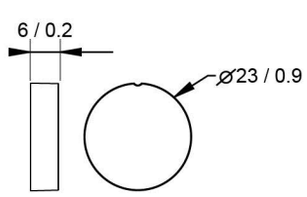
For more information, please contact with us right now!!

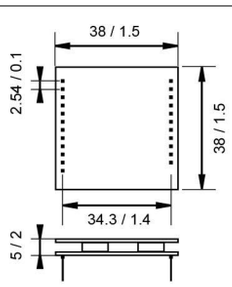
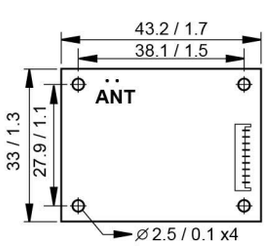
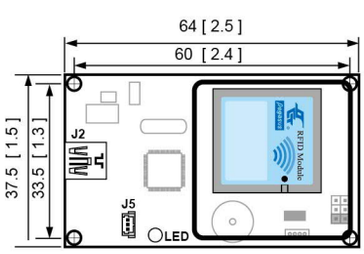
Index

Dimensions

Unit: (mm / inch)

Model No.	PIEM-A series	PXEM-B series	PIEM-C series	PIEM-E series
Appearance				
Dimensions				

Model No.	PIEM-F series	PIEM-G series	PIEM-H series	PIEM-I series
Appearance				
Dimensions				

Model No.	PIHD-04 series	PXHD-12 series	PIEM-14 / PIHD-14 series
Appearance			
Dimensions			

Introduction

125KHz RFID reading module series are compact size and to shorten and simplify RFID products development. Supports DC input range between 3.3~5.4V (or customized for 12V). Low power consumption and epoxy potted design suitable for integration with either portable or stationary product. The OEM/ODM is welcomed.

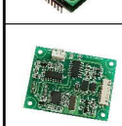
Features

- Supported dual decoding (EM 125KHz ASK & 125KHz FSK).
- Supported Multi-format(ASCII / Wiegand 26 / 34 bits / ABA(8D, 10D, 14D)).
- Selectable reading of Manchester 64 & 128 bits (encrypted) card and outputs ASCII (Optional).
- Applicable cards: EM 4001, 4100, 4102、TEMIC 5557 or compatible.
- Transmission spec.: 9,600 bps N,8,1(15,200/19,200bps)(Optional) for ASCII data format .
- Supplies buzzer & LED signal output.
- Low cost, high performance and compact size is easy for various products development.
- Comply with ROHS.
- Comply with CE certification.

Application field

Access control / Time attendance / POS system / Logistics / Production control / Mobile handheld device

Specification

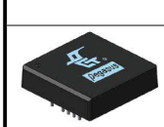
Appearance	Model No.	Dimensions (LxWxH)mm	Net weight	Reading range	With internal antenna	Supported Tag-ICs	Transmission spec.
	PIEM-A series	40.5 x 24 x 11	17g±5%	Card(T)0.8mm: 6±1cm Tag: 4±1cm Card(T)1.8mm: 8±1cm Specific card:12±1cm	YES	EM 4001 EM 4100 EM 4102 TEMIC 5557 (ISO1785) 125K ID card or compatible.	9,600 bps, N,8,1 (UART)
	PXEM-B series	26.5 x 16.5 x 7	6g ±5%	Depending on tag size, tag type and antenna size	NO		
	PIEM-C series	40 x 40 x 10	24g±5%	Card(T)0.8mm: 7±1cm Tag: 4±1cm Card(T)1.8mm: 10±1cm Specific card:16±1cm	YES		
	PIEM-E series	26(Diameter) x 9	9.2g±5%	Card(T)0.8mm: 6±1cm Tag: 4±1cm Card(T)1.8mm: 8±1cm Specific card:12±1cm	YES		
	PIEM-F series	26 x 25 x 7	7g±5%	Card(T)0.8mm: 6±1cm Tag: 4±1cm Card(T)1.8mm: 8±1cm Specific card:12±1cm	YES		
	PIEM-G series	21 x 19 x 6	4.3g±5%	Card(T)0.8mm: 5±1cm Tag: 3±1cm Card(T)1.8mm: 7±1cm Specific card:11±1cm	YES		
	PIEM-H series	32 x 32 x 8	14.2g±5%	Card(T)0.8mm: 6±1cm Tag: 3±1cm Card(T)1.8mm: 9±1cm Specific card:15±1cm	YES		
	PIEM-I series	23(Diameter)x 6	4.3g±5%	Card(T)0.8mm: 5±1cm Tag: 3±1cm Card(T)1.8mm: 7±1cm Specific card:11±1cm	YES		
	PIEM-04 series	38 x 38	14g±5%	Card(T)0.8mm: 7±1cm Tag: 4±1cm Card(T)1.8mm: 10±1cm Specific card:16±1cm	YES		
	PXHD-12 series	43.2 x 33	4.3g±5%	Depending on tag size, tag type and antenna size	NO		
	PIHD-14 series	64 x 37.5	15g±5%	Card(T)1.8mm: 7±1cm	YES		
	PIEM-14 series			Card(T)0.8mm: 3±1cm Card(T)1.8mm: 6±1cm			

Ordering Information

P □ □ – □ □ – □

I: With internal antenna X: Without internal antenn	EM: 125KHz ASK HD: 125KHz FSK	Dimensions(LxWxH)mm A: 40.5x24x11 B: 26.5x16.5x7 C: 40x40x10 E: 26(Diameter)x9 F: 26x25x7	G: 21x19x6 H: 32x32x8 I: 23(Diameter)x6	PCB only: 03: 24x23mm 04: 38x38mm 12: 43.2x33mm 14: 64x37.5mm	W: Wiegand A : ABA S : ASCII T : TTL R2: RS-232 U1: USB	Other features: LW: Micro Power Micro Power

125KHz ASK EM Series

Appearance	Model No.	Antenna		Output format(Interface)						Power	Other features
		Internal	Require additional	Wiegand 26 bits	ABA	ASCII	TTL	RS-232	USB		
	PIEM-AWAS-012A	•		•	•	•				DC 5~18V	
	PIEM-AWAS-012-5V	•		•	•	•				DC 3.3~5.4V	
	PXEM-BWS-01		•	•		•				DC3.3~5.4V	2.2nF capacitor embedded Should be pair with 700uH antenna
	PXEM-BWS-02		•	•		•				DC3.3~5.4V	3.3nF capacitor embedded Should be pair with 455uH antenna
	PIEM-CW	•		•						DC3.3~5.4V	
	PXEM-CW		•	•						DC3.3~5.4V	
	PIEM-CT	•					•			DC3.3~5.4V	
	PIEM-CWS	•		•		•				DC3.3~5.4V	
	PIEM-CWA	•		•	•					DC3.3~5.4V	
	PIEM-CWAS	•		•	•	•				DC3.3~5.4V	
	PIEM-EWS	•		•		•				DC3.3~5.4V	
	PIEM-EWS-12V	•		•		•				DC5~12V	
	PIEM-ES-840	•				•				DC3.3~5.4V	Supported Manchester 64 and 128 bits
	PIEM-FW	•		•						DC3.3~5.4V	
	PIEM-FWS	•		•		•				DC3.3~5.4V	
	PIEM-FWAS	•		•	•	•				DC3.3~5.4V	
	PIEM-FW34AS	•			•	•				DC3.3~5.4V	Supported Wiegand 34 bits
	PIEM-FWAS-LB	•		•	•	•				DC3.3~5.4V	Low Reset, normal at high voltage
	PIEM-FWAS-H	•		•	•	•				DC3.3~5.4V	High Reset, normal at low voltage
	PIEM-FWAS-12V	•		•	•	•				DC5~12V	
	PXEM-FWAS		•	•	•	•				DC3.3~5.4V	
	PXEM-FS-3.3V		•			•				DC3.3V	
	PXEM-FSCS-3.3V		•			•				DC3.3V	Checksum
	PIEH-FWAS-14H22	•		•	•	•				DC5V	Supported dual decoding (EM 125KHzASK & HC 125KHz FSK)
	PIEM-HWS-LW	•		•		•				DC 3.3~10V	***Micro Power*** Standby current: 11~18μA Working current :12~17.2mA Supported Wiegand 34 bits
	PIEM-14R2D01	•						•		DC 5V	Decima, 8 digits, Read card number 3bytes
	PIEM-14R2D02	•						•		DC 5V	Decima, 10 digits, Read card number 3bytes
	PIEM-14R2D03	•						•		DC 5V	Decima, 8 digits, Read card number 4bytes
	PIEM-14R2D04	•						•		DC 5V	Decima, 10 digits, Read card number 4bytes
	PIEM-14R2H01	•						•		DC 5V	Hexadecimal,8 digits
	PIEM-14R2H02	•						•		DC 5V	Hexadecimal,10 digits
	PIEM-14U1TD01	•					•		•	By USB	Decima, 8 digits, Read card number 3bytes
	PIEM-14U1TD02	•					•		•	By USB	Decima, 10 digits, Read card number 3bytes
	PIEM-14U1TD03	•					•		•	By USB	Decima, 8 digits, Read card number 4bytes
	PIEM-14U1TD04	•					•		•	By USB	Decima, 10 digits, Read card number 4bytes
	PIEM-14U1TH01	•					•		•	By USB	Hexadecimal,8 digits
	PIEM-14U1TH02	•					•		•	By USB	Hexadecimal,10 digits

RFID 125KHz ASK / FSK, Dual Decoding Read Module

125KHz FSK Series

Appearance	Model No.	Antenna		Output format(Interface)						Power	Other features
		Internal	Require additional	Wiegand 26/34 bits	ABA	ASCII	RS-232	TTL	USB		
	PIHD-CR2	•					•			DC 5V	
	PIHD-CW	•		•							
	PIHD-CT	•						•			
	PIHD-CWA	•		•	•						
	PIHD-CWS	•		•		•					
	PIHD-CWAR2	•		•	•		•				
	PIHD-CWAS	•		•	•	•					
	PIHD-CWAT	•		•	•			•			
	PXHD-CW		•	•							
	PXHD-CWS		•	•		•					
	PXHD-CWAS		•	•	•	•					
	PIHD-04W	•		•							
	PXHD-12W-LW		•	•						DC 4~9V	***Micro Power*** Standby current:10~15 μA Working current:21.3~23.8 mA
	PIHD-14R2D01	•					•			DC 5V	Decima, 8 digits, Read card number 3 / 4bytes
	PIHD-14R2D02	•					•			DC 5V	Decima, 10 digits, Read card number 3 / 4bytes
	PIHD-14R2H01	•					•			DC 5V	Hexadecimal,8 digits
	PIHD-14R2H02	•					•			DC 5V	Hexadecimal,10 digits
	PIHD-14U1D01	•							•	By USB	Decima, 8 digits, Read card number 3 / 4bytes
	PIHD-14U1D02	•							•	By USB	Decima, 10 digits, Read card number 3 / 4bytes
	PIHD-14U1H01	•							•	By USB	Hexadecimal,8 digits
	PIHD-14U1H02	•							•	By USB	Hexadecimal,10 digits

125KHz EM Module Starter Kit

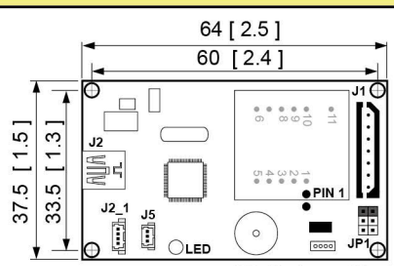
Introduction

- 125KHz ASK EM starter kit module support multi-cable wiring connection (7 pin, 3 pin, Mini USB cable) convert into multi-interface output for testing. (Wiegand, ABA, RS-232, USB)
  It helps to shorten and simplify RFID products development schedule compared with PIEM-FWAS series module.

Features

- With indicating power & status LED.
- With buzzer for sound warning.
- Supporting multi-cable wiring connection (7 pin, 3 pin, Mini USB cable) convert into multi-interface output for testing.
- No need to install driver. (keyboard emulator).
- Compact size.
- With 4 fixed holes around the corner.

Specification

Appearance	Model No.	Dimensions	Power input	Output format(Interface)
	PXEM-F-SDK	 (Unit: (mm / inch))	DC 5V	Wiegand, ABA, RS-232, USB

13.56MHz RFID Reader/Writer Module

Introduction

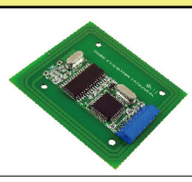
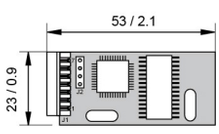
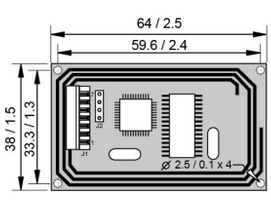
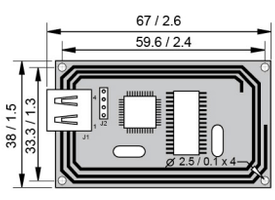
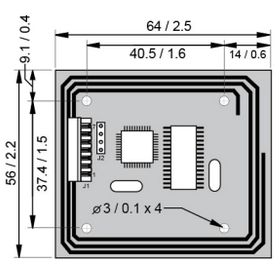
RFID 13.56MHz Modules support Read and Write system of ISO14443A、ISO14443B、ISO15693(Icode2、ST LRI12、Tag-IT HF-I)、DESFire, the module has integrated with antenna (it also can connect an external antenna upon request), supplies output format includes UART(RS-232)、Wiegand 26/34 bits、ABA、USB. Only requests DC4.5~5.4V input, USB type module supplies power via USB cable. Compact design with mounting holes, RFID 13.56MHz Read and Write Module is suitable for various integration such as portable product. We provide complete software/Hardware support and shorten schedule of RFID product development, OEM/ODM service is available.

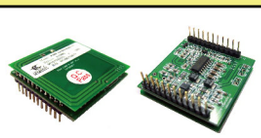
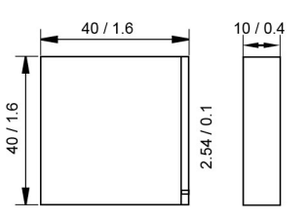
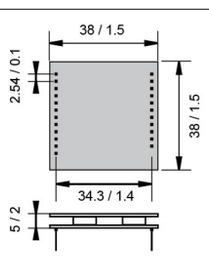
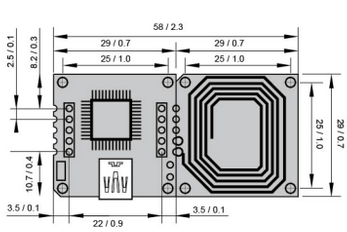
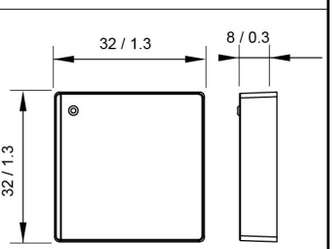
Features

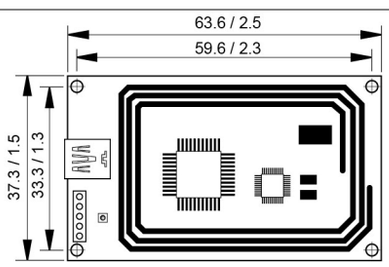
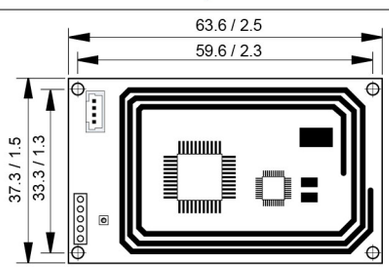
- Supply firmware upon customer's request.
- High data integrity / High speed data transfer.
- Anti-collision.
- Comply with ROHS, CE certification.

Dimensions

Unit: (mm / inch)

Model No.	PXMF-01SN / PXMF-01BK / PXMF-01MD	PIMF-02SN / PIMF-02BK / PIMF-02MD	PIMF-02SN/U / PIMF-02BK/U / PIMF-02MD/U	PIMF-05SN / PIMF-05BK / PIMF-05MD
Appearance				
Dimensions				

Model No.	PIMF-CSN	PIMF-04SN	PIMF-18SN	PIMF-HSN
Appearance				
Dimensions				

Model No.	PIMF-14SN	PIMF-14SN-1
Appearance		
Dimensions		

Firmware features

Firmware version		Y1 (SN version)	Y1 (BK version)	Y3	Y4						Y6	DS01	DS02	DS03	Z1
Card number order Note 1		In reverse	In reverse	In positive	In reverse (V28-3)	In reverse (V28-3 ANTON)	In positive (V28-4)	In positive (V28-6)	In reverse (V29-2)	In positive (V29)	In positive	In positive	In positive	In positive	In positive
Read serial number(UID)		●		●	●	●	●	●	●	●	●	●	●	●	●
Read block		●	●	●	●	●	●	●	●	●	●	●			●
Read multi-block					●	●	●	●	●	●					
Enable Auto Scan Read DESFire Card														●	
Read & Write data into the DESFire card's file 1~4													●	●	
Write block			●	●	●	●	●	●	●	●	●	●			●
Write keyA			●	●	●	●	●	●	●	●	●	●			●
Write keyB					●	●	●	●	●	●	●	●			●
Modify KeyA/KeyB					●	●	●	●	●	●	●	●			●
Change the key of the DESFire card's file 1~4													●	●	
Open/Close LED · BUZZER								●							
Antenna function on						●					●				
Add / Reduce value											●				
Transmission Spec.															
9,600 bps		●	●	●	●	●	●	●	●	●	● Default				●
19,200 bps					● Default	● Default	● Default	● Default	● Default	● Default		●			●
115,200 bps									●	●			●	●	● Default
SDK															
BC															●
DELPHI															●
PB															●
VB6		●	●	●	●	●	●	●	●	●		●			●
VB.NET					●	●	●	●							
VC															●
C#					●	●	●	●					●	●	●
Anti-collision		●	●	●	●	●	●	●					●	●	● Just for ISO15693
Output format(Interface)															
RS-232		●	●	●	●	●	●	●	●	●		●	●	●	●
Wiegand 26bits output		●	●												
Wiegand 34bits output		●													
ABA output		●	●												
ISO standard															
ISO14443A		●	●	●	●	●	●	●	●	●	●	●	●	●	●
ISO14443B															●
ISO15693															●
DESFire												●	●	●	
On-line		●	● Can set up parameter , write card	●	●	●	●	●	●	●	●	●	●	●	●
Standalone		● UART/Wiegand 26/34bit /ABA output	● UART/Wiegand 26bit /ABA output	●											
Application field	Access control	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Time attendance	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Membership schemes	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Logistics	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Production control	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	ID card	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	POS system	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Toy	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Electronic purse	●	●	●	●	●	●	●	●	●	●	●	●	●	
	Electric keys	●	●	●	●	●	●	●	●	●	●				●
	Automatic fare collection				●	●	●	●	●	●	●	●	●	●	
	BUS/train/airline ticketing				●	●	●	●	●	●	●	●	●	●	
	Vending				●	●	●	●	●	●	●	●	●	●	
	Asset tracking				●	●	●	●	●	●	●	●	●	●	
	Gambling				●	●	●	●	●	●	●	●	●	●	
	Road tolling				●	●	●	●	●	●	●				
	Park and ride schemes				●	●	●	●	●	●	●				
	Pre-paid metering				●	●	●	●	●	●	●				

Note 1

Ex.: Card UID(Card No. **in positive, Hexadecimal**) : **7C 90 E0 65**

	Hexadecimal		Decimal (10 digits)	Decimal (8 digits)
Card No. in positive	7C 90 E0 65	→	2089869413	14457445
			7C 90 E0 65 ↓ 2089869413	90 ↓ 144 E065 ↓ 57445
			Code: D08	Code: D05
Card No. in reverse	65 E0 90 7C	→	1709215868	22436988
			65 E0 90 7C ↓ 1709215868	E0 ↓ 224 907C ↓ 36988
			Code: D04	Code: D01

Specification

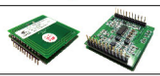
Firmware	Model No.	Dimensions (LxWxH)mm	Net weight	Reading range	With internal antenna	Supported Tag-ICs	Power requirement	Format(Interface)
Y1 Y3 Z1	PXMF-01SN	53 x 23 x 9	6.8g±5%	Depending on tag size, tag type and antenna size	NO	Mifare S50 / S70, Mifare Ultralight, NFC Tag and compatible card	DC4.5~5.4V	Depended on "Firmware features"
	PIMF-CSN	40 x 40 x 10	21.6g ±5%	5±1cm	YES			
	PIMF-02SN	64 x 38 x 9	9.4g±5%	5±1cm				USB
	PIMF-02SN/U	67 x 38 x 11	10.6g±5%	5±1cm				
	PIMF-04SN	38 x 38 x 5	17g±5%	5±1cm				Depended on "Firmware features"
	PIMF-05SN	64 x 56 x 9	10.6g±5%	7±1cm				
Y1 Y3 Y4 Series Z1	PXMF-01BK	53 x 23 x 9	6.8g±5%	Depending on tag size, tag type and antenna size	NO	Mifare S50 / S70, Mifare Ultralight, NFC Tag and compatible card	DC4.5~5.4V	Depended on "Firmware features"
	PIMF-02BK	64 x 38 x 9	9.4g±5%	5±1cm	YES			
	PIMF-02BK/U	67 x 38 x 11	10.6g±5%	5±1cm				USB
	PIMF-05BK	64 x 56 x 9	10.6g±5%	7±1cm				Depended on "Firmware features"
DS01 DS02 DS03	PXMF-01MD	53 x 23 x 9	6.8g±5%	Depending on tag size, tag type and antenna size	NO	Mifare S50 / S70, Mifare Ultralight, Mifare DESFire, NFC Tag and compatible card	DC4.5~5.4V	Depended on "Firmware features"
	PIMF-02MD	64 x 38 x 9	9.4g±5%	5±1cm	YES			
	PIMF-02MD/U	67 x 38 x 11	10.6g±5%	5±1cm				USB
	PIMF-05MD	64 x 56 x 9	10.6g±5%	7±1cm				Depended on "Firmware features"
---	PIMF-18SN	58 x 29	5.6g±5%	3±1cm	YES	Mifare S50 / S70, Mifare Ultralight, NFC Tag and compatible card	DC4.5~5.4V	Wiegand 26/34 bits / TTL / USB
	PIMF-HSN	32 x 32 x 8	12g±5%	3±1cm				Wiegand 26/34 bits / TTL
---	PIMF-14SN	63.6 x 37.3	7.6g±5%	4±1cm	YES	Mifare S50 / S70, Mifare Ultralight, NFC Tag and compatible card	DC4.5~5.4V	USB / UART

Ordering Information

P □ MF – □ □ / □ □

I: With internal antenna X: Without internal antenn	MF: Mifare	Dimensions 01:53(L)x23(W)x9(H)mm 02: 64(L)x38(W)x9(H)mm 04: 38(L)x38(W)x5(H)mm 05: 64(L)x56(W)x9(H)mm 14: 63.6(L)x37.3(H)mm 18: 58(L)x29(W)mm C: 40(L)x40(W)x10(H)mm H: 32(L)x32(W)x8(H)mm	SN: Read Serial Number(UID) BK: Read & Write block MD: DESFire Format	U: USB Interface U3: USB Interface with serial port emulator Please refer to" Firmware features".	Please refer to " Firmware features".

13.56MHz RFID Reader/Writer Module

Appearance	Model No.	Feature		Antenna		Firmware version	ISO Standard			Anti-collision	Other Features
		Read Serial Number(UID)	Read & Write	Internal	Require additional		14443A	14443B	15693		
	PXMF-01SN	●			●	Y1(SN version)	●			●	
	PXMF-01BK/Y4		●		●	Y4	●			●	
	PXMF-01BK/Z1		●		●	Z1	●	●	●	● Just for ISO15693	
	PIMF-02SN	●		●		Y1(SN version)	●			●	
	PIMF-02BK		●	●		Y1(BK version)	●			●	
	PIMF-02BK/Y4		●	●		Y4	●			●	
	PIMF-02BK/TY4		●	●		Y4	●			●	UART (TTL) Format
	PIMF-02BK/Y4-9		●	●		Y4	●			●	Default:9,600 bps
	PIMF-02BK/Y4-ON		●	●		Y4	●			●	Antenna automatically open when the power is turned on.
	PIMF-02BK/Z1		●	●		Z1	●	●	●	● Just for ISO15693	
	PIMF-02BK/U2Y4		●	●		Y4	●			●	Read /White by USB
	PIMF-02BK/U2Z1		●	●		Z1		●	●	● Just for ISO15693	Read /White by USB
	PIMF-02MD/TDS02		●	●		DS02	●			●	UART (TTL) Format
	PIMF-04SN/W26-Y1	●		●		Y1(SN version)	●			●	
	PIMF-05BK/Y4		●	●		Y4	●			●	
	PIMF-05BK/Z1		●	●		Z1	●	●	●	● Just for ISO15693	
	PIMF-CSN	●		●		Y1(SN version)	●			●	
	PIMF-02MD/TDS02		●	●		DS02	●			●	UART (TTL) Format

Appearance	Model No.	Antenna		Output format(Interface)				Numeral system		Digits		Other Features
		Internal	Require additional	Wiegand 26 bits	Wiegand 34 bits	USB	UART(TTL)	Decimal	Hexadecimal	8 digits	10 digits	
	PIMF-18SN/W26T	●		●			●					
	PIMF-18SN/W34T	●			●		●					
	PIMF-18SN/W26TS	●		●			●					Card number: In positive Note 1
	PIMF-18SN/W34TS	●			●		●					Card number: In positive Note 1
	PIMF-HSN/W26T	●		●			●					
	PIMF-HSN/W34T	●			●		●					
	PIMF-HSN/W26TS	●		●			●					Card number: In positive Note 1
	PIMF-HSN/W34TS	●			●		●					Card number: In positive Note 1
	PIMF-18SN/U1D01	●				●		●		●		Read card number 3bytes
	PIMF-18SN/U1D02	●				●		●			●	Read card number 3bytes
	PIMF-18SN/U1D03	●				●		●		●		Read card number 4bytes
	PIMF-18SN/U1D04	●				●		●			●	Read card number 4bytes
	PIMF-18SN/U1D05	●				●		●		●		Read card number 3bytes
	PIMF-18SN/U1D06	●				●		●			●	Read card number 3bytes
	PIMF-18SN/U1D07	●				●		●		●		Read card number 4bytes
	PIMF-18SN/U1D08	●				●		●			●	Read card number 4bytes
	PIMF-18SN/U1H01	●				●			●	●		
	PIMF-18SN/U1H02	●				●			●		●	
	PIMF-18SN/U1H03	●				●			●	●		
	PIMF-18SN/U1H04	●				●			●		●	
	PIMF-18SN/H01T	●				●	●		●	●		
	PIMF-14SNU1D01	●				●	●	●		●		Read card number 3bytes
	PIMF-14SNU1D02	●				●	●	●			●	Read card number 3bytes
	PIMF-14SNU1D03	●				●	●	●		●		Read card number 4bytes
	PIMF-14SNU1D04	●				●	●	●			●	Read card number 4bytes
	PIMF-14SNU1D05	●				●	●	●		●		Read card number 3bytes
	PIMF-14SNU1D06	●				●	●	●			●	Read card number 3bytes
	PIMF-14SNU1D07	●				●	●	●		●		Read card number 4bytes
	PIMF-14SNU1D08	●				●	●	●			●	Read card number 4bytes
 PIMF-14SN-1	PIMF-14SNU1H01	●				●	●		●	●		
	PIMF-14SNU1H02	●				●	●		●		●	
	PIMF-14SNU1H03	●				●	●		●	●		
	PIMF-14SNU1H04	●				●	●		●		●	

13.56MHz RFID Felica / Mifare Reader Module

Introduction

This is designed in accordance with Felica ISO 18092(UID) & Mifare ISO 14443A(UID) standard to read the contact less smart card. Only requests DC4.5~5.4V input, USB type module supplies power via USB cable. It is designed for low cost and high security as well as convenience and reliability.

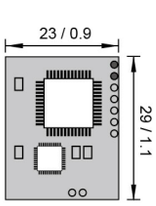
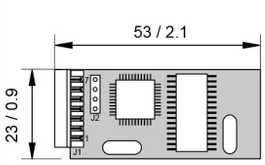
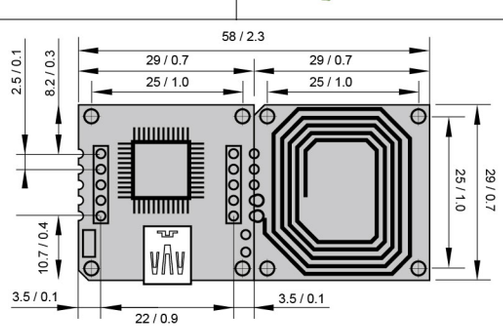
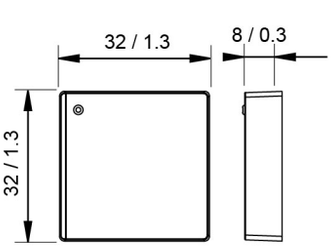
Compact design with mounting holes, the module is suitable for various integration such as portable product. We provide complete hardware support and shorten schedule of RFID product development, OEM/ODM service is available.

Features

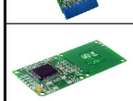
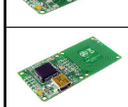
- Support Felica ISO 18092(UID) & Mifare ISO 14443A(UID).
- Support Wiegand 26/34 bits, USB, UART(TTL), RS-232 output.
- Supply firmware upon customer's request.
- High data integrity.
- High speed data transfer.
- Comply with ROHS.

Dimensions

Unit: (mm / inch)

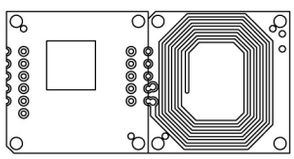
Model No.	PXFC-13SN	PXFC-01SN	PIFC-18SN	PIFC-18SN/U	PIFC-HSN
Appearance					
Dimensions					

Specification

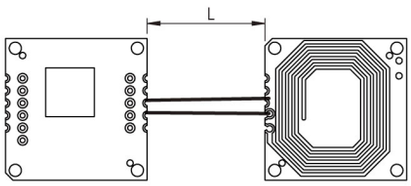
Appearance	Model No.	Dimensions (LxWxH)mm	Net weight	Reading range	With internal antenna	Output format(Interface)	Transmission spec.	Supported Tag-ICs
	PXFC-13SN	29 x 23	3.5g±5%	Depending on tag size, tag type and antenna size	NO	Wiegand 26/34 bits, UART(TTL), RS-232(Optioal)	9,600 bps, N,8,1 (UART)	Mifare S50 / S70, Mifare Ultralight, NFC Tag, Felica or compatible.
	PXFC-01SN	53 x 23	6.6g ±5%	Depending on tag size, tag type and antenna size	NO	Wiegand 26/34 bits, UART(TTL), RS-232(Optioal)		
	PIFC-18SN	58 x 29	5.6g±5%	Card(T)0.8mm: 3±1cm Tag: 2±1cm	YES	Wiegand 26/34 bits, UART(TTL)		
	PIFC-18SN/U	58 x 29	6.2g±5%	Card(T)0.8mm: 3±1cm Tag: 2±1cm	YES	Wiegand 26/34 bits, UART(TTL), USB		
	PIFC-HSN	32 x 32 x 8	12g±5%	Card(T)0.8mm: 3±1cm Tag: 2±1cm	YES	Wiegand 26/34 bits, UART(TTL)		

Application PIFC-18 series

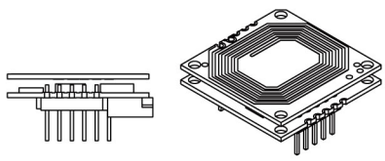
Type A



Type B



Type C



Optional Antenna For PXFC-13 / PXFC-01 series

Antenna Model No.	Dimension	Reading Range(Depending on tag size, tag type)
R-17-PP87/1.2UH-COIL	68 x 96MM	5CM
R-17-PUA310M2/COIL	58.5 x 69.5MM	6CM
R-17-PP3702/M COIL	79 x 103MM	7CM
R-17-PM6750/COIL	51.3 x 65.5MM	4.5CM
R-17-PZ85/COIL/M	53 x 78MM	3CM
R-17-PP110M2/COIL	33 x 81MM	4CM

Ordering Information

Appearance	Model No.	Antenna		Output format(Interface)					Power requirement
		Internal	Require additional	Wiegand 26 bits	Wiegand 34 bits	USB	RS-232	UART(TTL)	
	PXFC-13SN/W26		●	●					DC 5V
	PXFC-13SN/W34		●		●				
	PXFC-13SN/T		●					●	
	PXFC-13SN/R2		●				●		
	PXFC-01SN/W26		●	●					
	PXFC-01SN/W34		●		●				
	PXFC-01SN/T		●					●	
	PXFC-01SN/R2		●				●		
	PIFC-18SN/U1W26T	●		●		●		●	
	PIFC-18SN/U1W34T	●			●	●		●	
	PIFC-18SN/W26T	●		●				●	
	PIFC-18SN/W34T	●			●			●	
	PIFC-HSN/W26T	●		●				●	
	PIFC-HSN/W34T	●			●			●	

※ Other customer request specifications are welcomed.

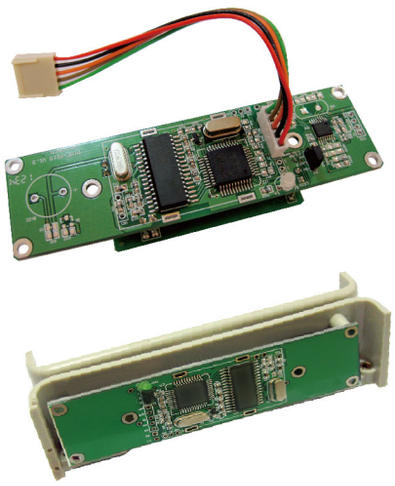
Mifare is a registered trademark of NXP B.V.

MIFARE DESFire is a registered trademark of NXP B.V.

FeliCa is a trademark of Sony Corporation.

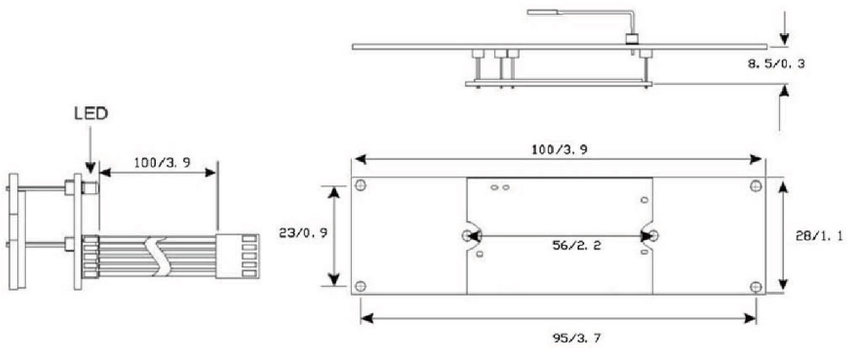
MSR 10 cm Compatible Mifare Reader Module

PIMF-10WAS



Dimensions

Unit: (mm / inch)



Introduction

- PIMF-10WAS is designed to upgrade from Magnetic stripe products to RIFD contactless products. Complete replacing MSR by hole pitch & connector (could accept ODM order), other Wiegand 26 bits, UART output is selectable by jumper.

Features

- Compact size for easy designed-in.
- Lower cost with effective performance.
- Application: Collecting Auto-ID data, POS, access controller & time attendance recorder, security solution...etc.
- Other OEM, ODM specification are welcome. (MOQ is 200pcs)

Specification

Dimension	100 (L) x 28 (w) x 8.5 (H) mm
Reading distance	30~60mm
Frequency	13.56MHz
Power consumption	5V DC±5%, 70mA(Standby) / 100mA(Operating)
Output interface	Wiegnad 26bits, ABA Track2, UART(TTL) (Select by jump SJ1)
Transmit spec.	9,600 bps, N,8,1
Transponders/Card/Tag supported	Mifare MF1 standard cards for 1024/4096 bytes and Mifare UltraLight cards for ISO 14443A
ID contents	＊UID (Unique Serial Number) for identification. ＊For other blocks could be selected by UART 2 selection thru supported applications software.
Operating temperature	-10°C~60°C
Humidity	10%~90%

Dual Frequency 125KHz 13.56MHz | Dual Decoding ASK FSK

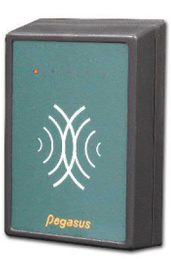
PP-30

PP-110

PUA-310V(Desktop)

PUA-310V1(Surface Mount)

PUA-311



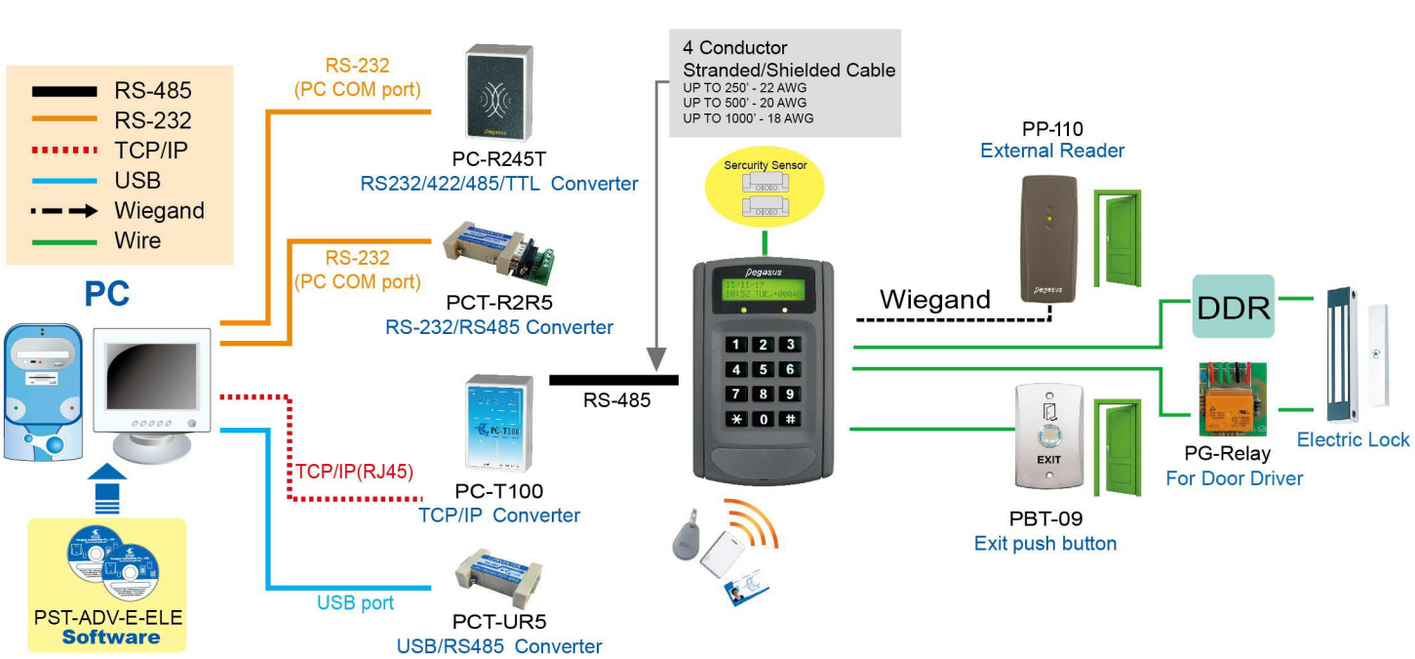
PP-5210

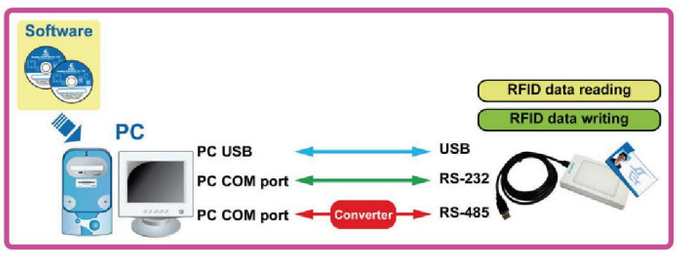
PP-5211

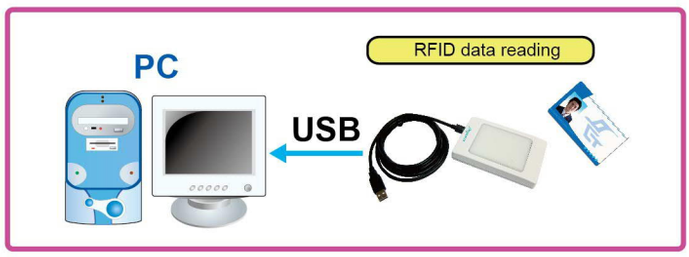
PP-610

PW-710

System Configuration







Example Applications

PUA-310V1
Surface Mount

RS-232
RS-485
USB

HMI
(human–machine interaction)

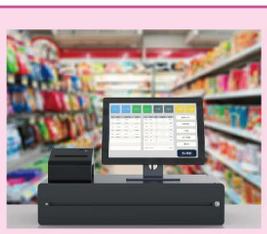
PUA-310V1
Surface Mount

RS-232
RS-485

Charging station

PUA-310V
Desktop

USB



POS System
Membership schemes
Copier accounting

Introduction

- Easily interfaced with Pongee or other standard access controller for management of access control, time attendance & lift access control systems.

Features

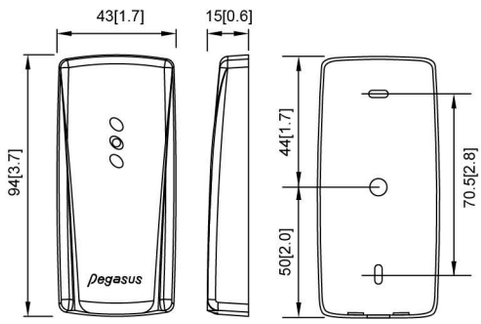
- LED indicators show power and operation status.
- Built-in buzzer for sound notification.
- Provides tamper switch.
- Exclusive **Q type** format developed by Pongee is incompatible with general proximity reader. This technology supplies higher security.
- Supports Multi-frequency (EM、Mifare ISO15693、ISO14443A/B)reader. (by optional)
- With CPU watch-dog function to prevent malfunction.
- Suggested to pair with
  Standalone system: PP-87, 5878G controller
  On-line system: PP-6750V, PP-85, PP-35, PP-36, PP-3790 or PP-3702T controller

Specification

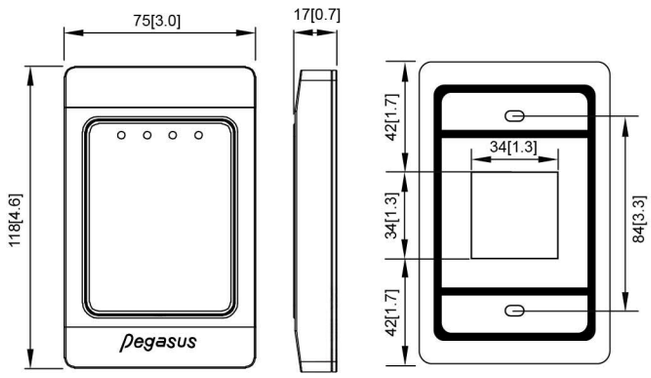
Appearance										
Model No.		PP-30	PP-110	PUA-310V1	PUA-311	PUA-310V	PP-5210	PP-5211	PP-610	PW-710
RFID frequency		125KHz ASK 125KHz FSK	125KHz ASK 125KHz FSK		125KHz ASK	125KHz ASK 13.56MHz Dual frequency	125KHz ASK 13.56MHz			
		13.56MHz	13.56MHz	13.56MHz M3 Dual frequency	125KHz FSK					
Applicable cards		EM 4001,EM 4102 or compatible card, TEMIC 5557 Mifare S50, S70, Mifare Ultralight, Mifare DESFire, Felica, NFC Tag								
Mounting		Flush Mounted	Surface Mount			Desktop	Surface Mount			Desktop/Surface Mount
Keypad		NO	NO		3X4 keypad	NO	NO	3X4 Membrane keypad	NO	NO
Waterproof		YES	YES		NO	NO	YES		NO	YES
Reading range	EM 125KHz ASK	6~7cm	6~18cm	6~19cm	6~18cm	5~6cm	6~20cm	8~21cm	5~22cm	5~6cm
	125KHz FSK	3cm	6~8cm	6~10cm	6~10cm	5~6cm	---	---	---	5~6cm
	Mifare 13.56MHz	3cm	4~7cm	5~7cm	---	5~6cm	5~8cm	5~8cm	5~8cm	5~6cm
	M3 type	---	---	6~19cm	---	---	---	---	---	---
Output format (Interface)		RS-232 /Wiegand 26/34bits / ABA (Track2)	RS-232/RS-485/Wiegand 26/34bits <26~64bits(Optional)> / ABA (Track2) / USB		RS-232 / RS-485 / Wiegand 26 bits	USB	RS-232 / RS-485 / Wiegand 26 bits		Wiegand 26/ 34 bits / ABA (Track2)	RS-232/RS-485/ Wiegand 26/34bits / ABA (Track2) / USB
Transmission rate		9,600 bps N, 8, 1(19,200 bps N, 8, 1)(Optional)								
Operating voltage		12V DC	5V DC / 12V DC / 24V DC			By USB	12V DC			
Indications	LED	LED(Power / Status)								
	Buzzer	Built-in buzzer sound								
Tamper switch		YES								
Watchdog		YES								
Responding signal (LED/Buzzer)		YES								
Operating temperature		-10°C~75°C								
Storage temperature		-20°C~85°C								
Material / Color		PC/Black	ABS/Brown	ABS/Black、White	ABS/Black、White	ABS/Black、White	ABS/Black	ABS/Black	ABS/Black	ABS/Black
Dimensions(L×W×H) mm		39.7(Diameter)	94 x 43 x 15	118 x 75 x 16	118 x 75 x 16	118 x 75 x 17	115 x 78 x 31	115 x 78 x 31	138 x 85 x 29	122 x 77 x 32

Proximity Reader

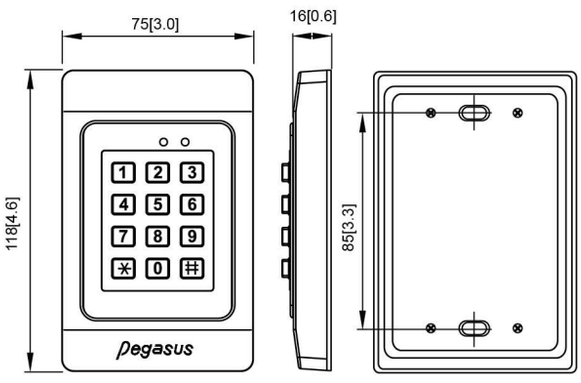
Dimensions mm[inch]



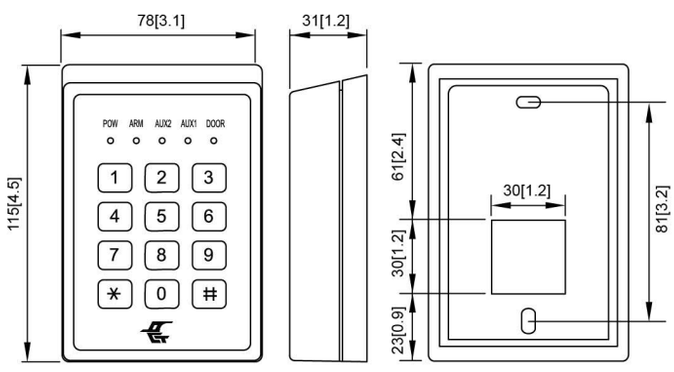
PP-110



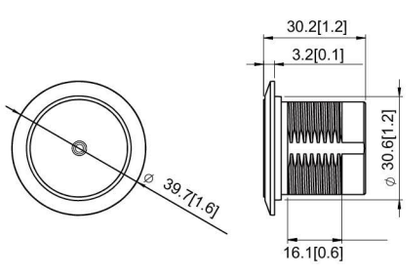
PUA-310V / PUA-310V1



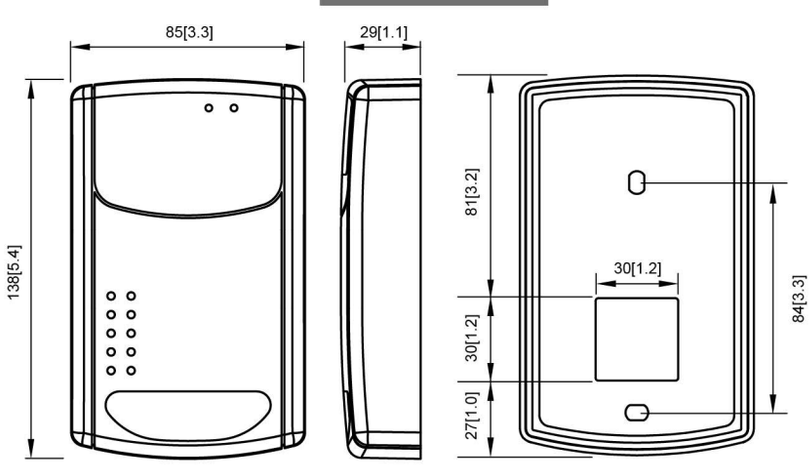
PUA-311



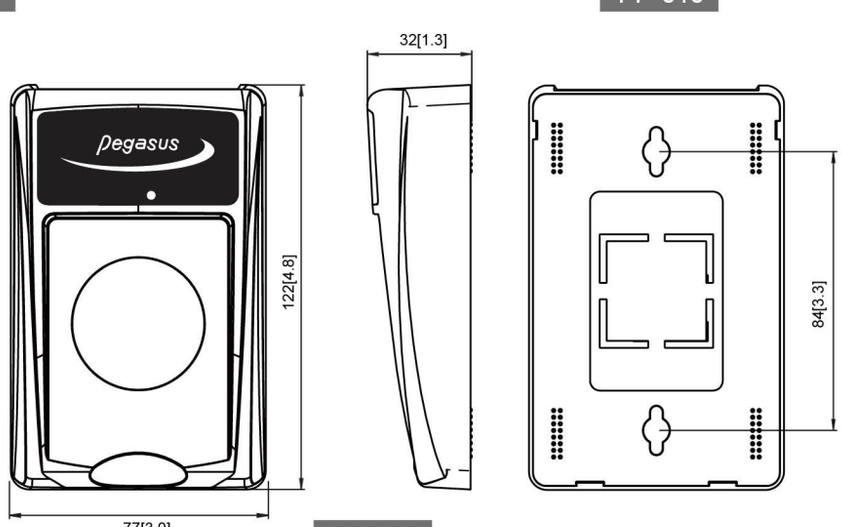
PP-5210 / PP-5211



PP-30



PP-610



PW-710

Ordering information

PUA-310V – 0 N R2 D 01

Model No.	Epoxy	Applicable cards	Output Interface	Numeral system	Code	Read card number: In reverse Note 1	Read card number: In positive Note 1	Read card number: 2bytes	Read card number: 3bytes	Read card number: 4bytes	Read card number: 5bytes	Output card number format: 8 digits	Output card number format: 10 digits	Output card number format: 14 digits	CheckSum
V Desktop	0: W/O epoxy 1: Epoxy	N: 125KHz ASK EM	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01				●			●			
					02				●				●		
					03					●		●			
					04					●			●		
					05						●			●	
				H:Hexadecimal	01							●			
					02								●		
			A:ABA	D:Decimal	01							●			
					02								●		
					03									●	
			W:Wiegand	26: 26bit, 34: 34bit <42/44/64 bits(Optional)>											
		M0/M1/M8: 13.56MHz Mifare (Ultralight, NFC Tag,) MD: 13.56MHz Mifare DESFire (Ultralight, NFC Tag) F: 13.56MHz Mifare & Felica (Ultralight, NFC Tag)	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01	●			●			●			
					02	●			●				●		
					03	●				●		●			
					04	●				●			●		
					05		●		●			●			
					06		●		●				●		
					07		●			●		●			
					08		●			●			●		
					09	●		●					●		
					10		●	●					●		
				H:Hexadecimal	01	●						●			
					02	●							●		
					03		●					●			
					04		●						●		
					05	●						●			●
					06	●							●		●
					07	●								●	
					08		●							●	
			A:ABA	D:Decimal	01	●						●			
					02		●					●			
					03	●							●		
					04		●						●		
			W:Wiegand	26: 26bit, 34: 34bit, 58:58bit <42/44/64 bits(Optional)>											
V1 Surface Mount		H: 125KHz FSK	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01				●	●		●			
					02				●	●			●		
				H:Hexadecimal	01							●			
					02								●		
			A:ABA	D:Decimal	01							●			
					02								●		
				H:Hexadecimal	01							●			
					02								●		
			W:Wiegand	26&34bit <32、35、36、37、40、42、48bit (optional)>											

Note 1

Ex.: Card UID(Card No. **in positive, Hexadecimal**) : **7C 90 E0 65**

	Hexadecimal		Decimal (10 digits)	Decimal (10 digits)	Decimal (8 digits)
Card No. in positive	7C 90 E0 65	→	2089869413	31888 , 57445	14457445
			7C 90 E0 65 ↓ 2089869413	7C90 ↓ 31888 E065 ↓ 57445	90 ↓ 144 E065 ↓ 57445
			Code: D08	Code: D10	Code: D05
Card No. in reverse	65 E0 90 7C	→	1709215868	26080,36988	22436988
			65 E0 90 7C ↓ 1709215868	65E0 ↓ 26080 907C ↓ 36988	E0 ↓ 224 907C ↓ 36988
			Code: D04	Code: D09	Code: D01

※**U1** : Plug & Play, USB, keyboard emulation(without any PC driver)

※**U3** : Serial port emulator thru USB interface

※ **M0** : Reading Mifare UID (Serial No.)

M1 : Mifare sector number assigned by Pegasus for specific customer. (with proprietary key)

M8 : Reading card number from Mifare block 8 by factory defaulted key.

※**M2** : For Mifare read/write application (customized firmware),

U2: USB, Reader/Writer (with software)

※Standard RS-232 output format: <STX>000043090892<CR><LF><ETX>

※Standard RS-485 output format: <STX>000043090892<CR><LF><ETX>

Unfading keypad by dual color ABS injection

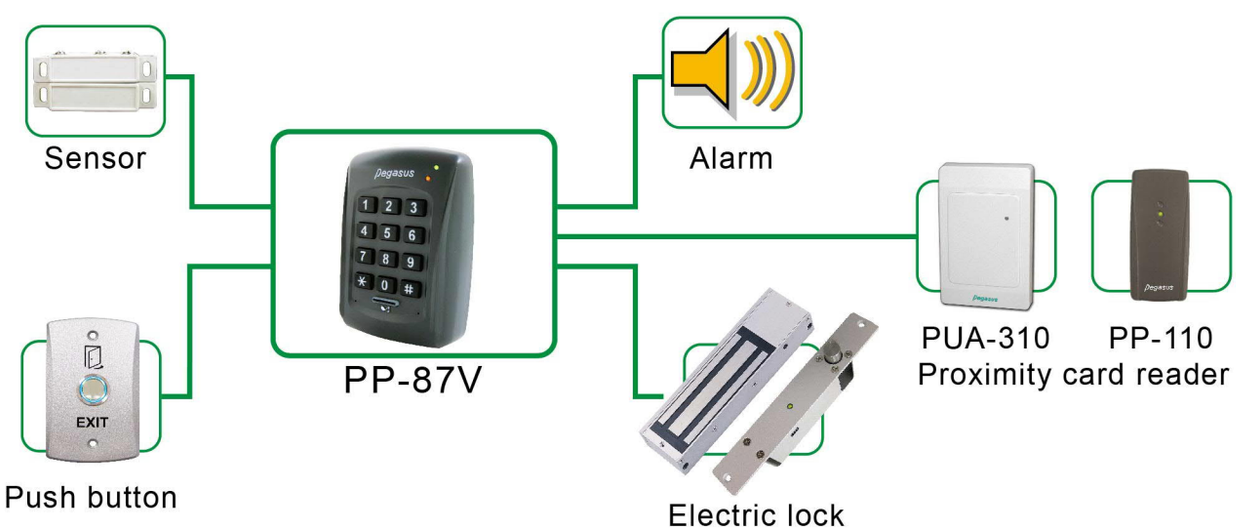
PP-87V

Doorbell Waterproof

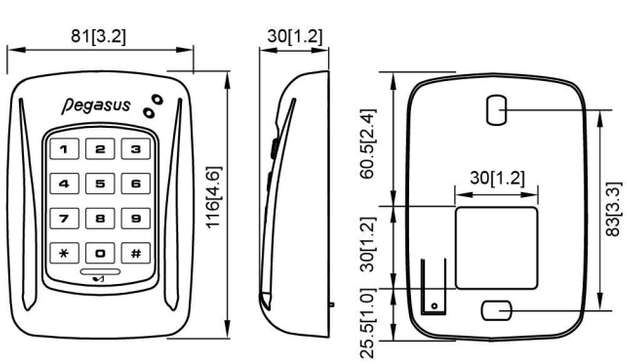
PP-5707G(PC On-line) / PP-5878G

Waterproof

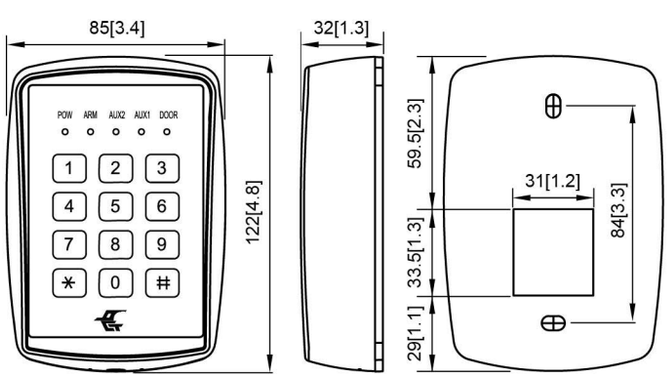
System Configuration



Dimensions mm[inch]



PP-87V



PP-5707G / PP-5878G

Stand Alone Access Controller/Reader

Introduction

- With integral Proximity/RF/reader into one unit. Waterproof designed, and support external reader port. (Optional: support 2 external reader ports for anti-bass back function)
- Support multiple open door operation modes, increased card number by block period, multiple door pins, duress pin code, disable security function, trial error alarm, hardware tamper switch warning alarm and door monitoring functions.

Features

- The basic capacity is 9990 cards for 4 digits mode with 10 definable facility. (2000 cards for 6 digits version models is for other selection)
- Support duress code pin and allow setting open door time by user, trial error warning alarm also allow setting door monitoring time by user.
- Support enable/disable security function and complete work with security system.
- With tamper switch, it will be automatic alarm while someone tamper with controller.
- With door monitoring function, it will be automatic alarm while door opening for a long period and not back to normal or entrance without using prox. Card.
- Inquire whether if legal card or not and printed by printer.
- Support printer port, report support to print system parameter and inquire personal map data, and print out all events including legal or illegal records.
- With 10 sets continuity functional steps and micro command operate by keypad, easily to learn follow from LED and buzzer instruction.
- CMOS version CPU for low power consumption and silent operation, the stored data can be retained for 10 years without external power supply.
- PP-5707G also support online model, other functions same as above mentioned.
- Standalone model: PP-5878G/N(Standard card number format) , PP-5878G/P(Pegasus card number format)
- Online model: PP-5707G/N(Standard card number format) ， PP-5707G/P(Pegasus card number format)

Specification

Appearance			
Model No.		PP-87V	PP-5707G/PP-5878G
Keypad		Unfading keypad by dual color ABS injection	Membrane keypad
Dimensions (LxWxH)mm		116 x 81 x 30	122 x 85 x 32
Material		ABS(Waterproof)	
Power requirement		12 V DC	
Reading range		5~15 cm (Depending on environment)	
Doorbell		YES	NO
Mater Card		1	10
User Capacity		32,000	9,990(4 digits) 2,000(6 digits)
ID Digits		4 digits / 6 digits	
Card Standard	EM 125KHz ASK(PN)	YES	
	Mifare 13.56MHz	YES	
	125KHz FSK	YES	
	Pegasus(PP)	YES	
	M3	YES	
	Felica	YES	
With Common Door Code		5	
Lifts Control	User Capacity	32,000	9,990
	Hall Calling	YES	
AUX Wiegand Port (26/34 bits)		YES	
Door Monitoring	Door Release Time (Sec.)	0~98 Sec.	
	Door Monitoring (Sec.)	0~99 Sec.	
	Door Forced Open Monitoring	YES	
Safety Zone Monitoring		YES	
Alarm Function	Alarm Actuate Time Setting	0~99 Sec.	
	Forced Opening Alarm	YES	
	Door Held Alarm	YES	
Error Trials Counts		0~9	
Projects Check		YES	
Case Tamper Switch Output		YES	
Digital Door Driver		OPTIONAL	
Duress Function		YES	
Access Mode	Card Only	YES	
	Card Or Keypad (PIN)	YES	
	Card & Keypad (PIN)	YES	
	Card Number & Keypad (PIN)	YES	

Stand Alone Access Controller/Reader

PC-30

PC-110

PP-360

Introduction

Access control is very compact size, self contained access control module including the necessary antenna, relay and VR which could be served as a standalone, contactless access controller with the abilities of Add by learning maximum 64/1,000 EM/Mifare cards as legal cards for access with variable door releasing time adjusted by rotational volume resistor. It can set some specific card as master card to Add, Delete single card as well as delete all cards by master card programming.

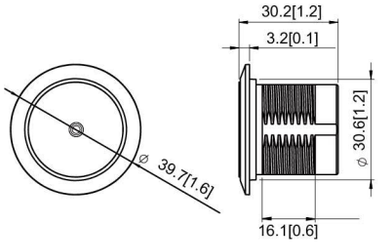
Features

- With 64/1,000 card capacity to be Added, Deleted and Cleared all by master card programming.
- With inherent form A relay and VR to offer dry contact.
- Adjustable releasing timer by VR (rotation variable resistor).
- No PC or other terminal is needed for parameters programming.
- With LED and buzzer for programming & access indications.

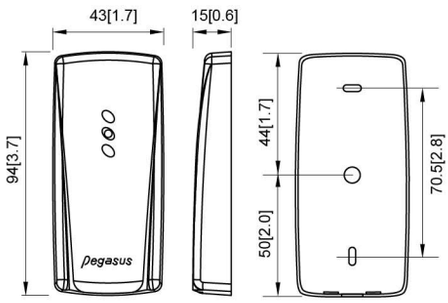
Specification

Appearance			
Model No.	PC-30	PC-110	PP-360
RFID frequency	125KHz ASK / 125KHz FSK / 13.56MHz	13.56MHz	125KHz ASK
Applicable cards	EM 4001,EM 4102 or compatible / TEMIC 5557/Mifare 14443A S50/S70	Easy Card, Mifare S50 / S70 and compatible card	EM 4001,EM 4102 or compatible / TEMIC 5557
Card capacity	1,000 / 4,000(optional)	64	1,000
Reading range	3 ±1 cm	5 ±1 cm	7 ±1 cm
With internal antenna	Yes	Yes	Yes
Power input	12V DC	6~12V DC	12V DC
Material	PC	ABS	PC
Dimensions(LxWxH)mm	39.7(Diameter)	94 x 43 x 15	118 x 75 x 17

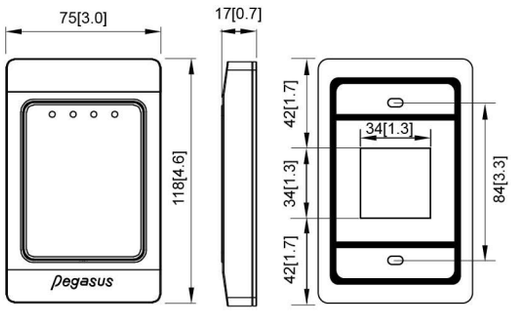
Dimensions mm[inch]



PC-30



PC-110



PP-360/N

Ordering information

PC-30/N : Mini Flush-Mount 125KHz ASK access controller
PC-30/H : Mini Flush-Mount 125KHz FSK access controller
PC-30/NH : Mini Flush-Mount 125KHz ASK & FSK access controller
PC-30/M0 : Mini Flush-Mount 13.56MHz Mifare access controller
PC-30/F : Mini Flush-Mount 13.56MHz Mifare & Felica access controller
PC-110-0/M0 : 13.56MHz Mifare access controller
PP-360/N : 125KHz ASK access controller

Dual Frequency 125KHz 13.56MHz | Dual Decoding ASK FSK | NFC | Bluetooth

Metal Case Metal Keypad

PZ-85

PP-35

PP-36

PP-56

Unfading keypad by dual color ABS injection

PP-85V

Unfading keypad by dual color ABS injection

Unfading keypad with blue backlight(optional)

PP-6750V

TCP/IP embedded

PP-3790

PP-3702/T

Fingerprint

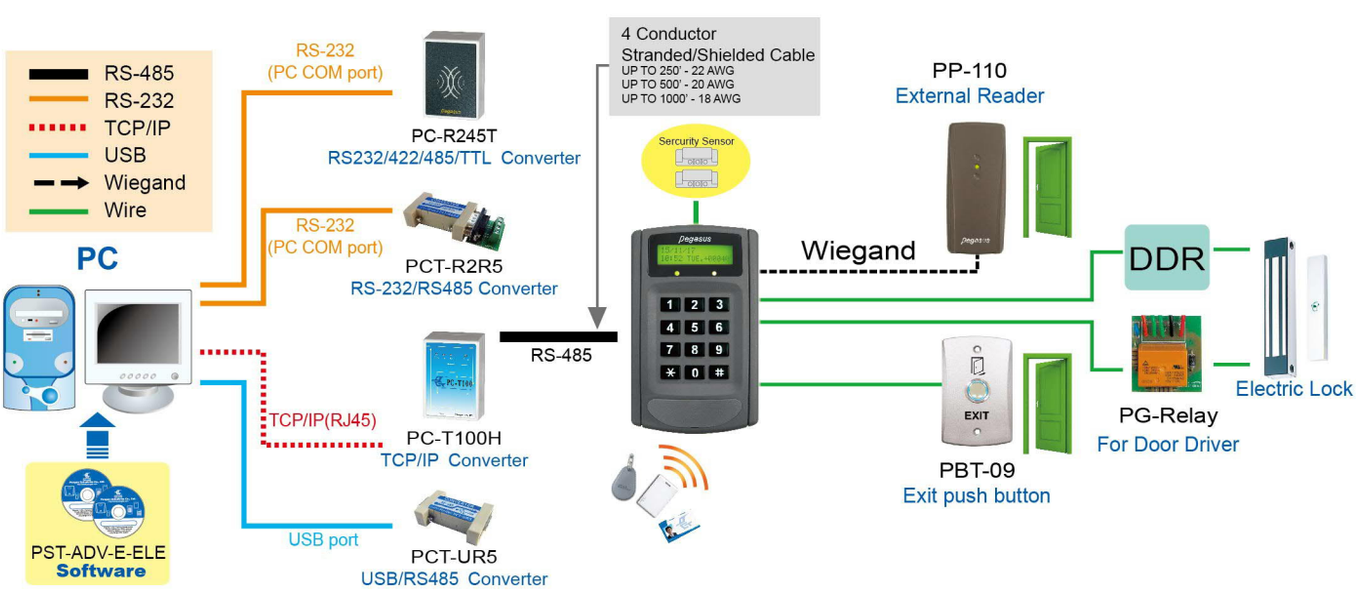
PFP-3702V

PP-3760V

Metal Case Metal Keypad

PP-2750V

System Configuration



Lift access controller system

Prepaid Access Control System

For example 1: Elevator payment system(Pay-per-use), supports access control for maximum 40 floors.


Calling the lift


Reading card after you enter the lift then select floor which the right you have.

Balance will be shown on LCD

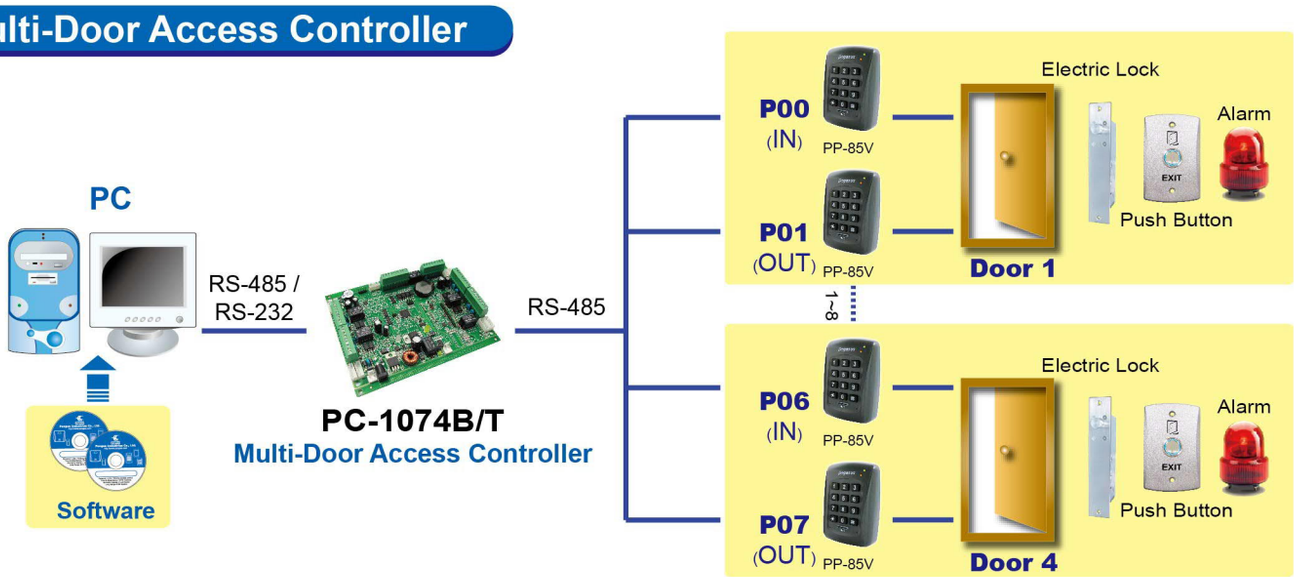
For example 2: Conference room payment system(Pay-per-daily)


Card contents programmed by PC


Reading card when entering the conference room

Balance will be shown on LCD

Multi-Door Access Controller



Introduction

- The Pegasus PP series is a intelligent time recording terminals designed to meet variant applications in time attendance and access control, lift control & ARM/DISARM security requirements. Each terminal can be operated independent simply or through PC communication RS-485 / TCP/IP to fulfill the multiple doors access system. The recording terminal includes nearly all the necessary functions for time recording and access control with bountiful manual & PC executed commanded functions as well as friendly operation commanded for manual operation.
- Supported Multi-frequency (EM / Mifare <ISO 15693/14443A/14443B/ Felica>) time attendance recorder and access controller. (by optional)
- Supported dual decoding (EM 125KHz ASK & 125KHz FSK 26、34、42bits) time attendance recorder and access controller. (by optional).
- Unfading keypad by dual color ABA injection, unfading keypad with backlight. (Optional)
- With Freescale CPU supported working temperature -55~155°C
- Switching on alarm automatically, if failed input password for three times and warning management to avoid illegal entrance.
- Relay supported with shockproof, to avoid illegal open door entrance.
- Supported macro command to simplify access control & lift access setting.
- Supported **Bluetooth / NFC / Pongee APP** function.(Optional)
- For higher security, our **M3 series** is applied with anti-duplication HF card.

Features

Features for time recording application:

- Selectable batch or real time operation mode.
- 79 duty codes, duty name defined by PC.
- Possible in 8 digits ID for time attendance recording.
- Totally 192 alarm schedules (8 schedules per hour) dry contacts output for periodic belling.
- Supply data collection by real time or one by one events or massive block dump.
- High capacity with 8 digits card number. (Either checking or without checking personal map)
- LCD display with 8 digits for displaying year, month, day, week, time & events counter.
  (For PP-6750V / PP-3790 / PP-3702/T / PP-2750V / PFP-3702V series)

Features for access control application:

- System parameters and personal access map can be downloaded by PC or manually programmed through keypad.
- The personal access map is consisted of card ID, staff number and name, PIN and Time Zone Status, expiry date and Anti-passback.
- Excellent multiple operation modes :(1) Card only (2)Free access (3)Automatic operation mode by time zones.
  (4) Card + PIN (5)Door PIN only (6)Card Number+PIN (7)Fingerprint
  (8) ID+Fingerprint {(4)(5)(6) except PP-36, PP-56 (7)(8) for PFP-3702V}
- All operation modes with PIN are supported by selectable duress function. Also, keypad is lockable to become dumb.(except PP-36 / PP-56)
- Individual personal access map can be edited by block range add or delete card in group basis by on-lined PC or by manual thru. single / block range card number or by directly reading card thru. learning mode.
- Selectable immediate or batched conditional sorting and then printing out events thru. serial output interface.
- With complete door release, held monitoring and intruded alarm period and error trials.
- Full APB (anti-passback), time zone.
- Could dump all personal map in system by single PC or manual command.
- Group function by pressing password.

Features for lift access control application:

- Supports 8/24/48/64/96 floors lift access control.
- Could lift access control and time zone control at the same time.
- With lift control, floor intercom, Mifare prepaid value, RFID lift card (Use competence login in card) function (Main function refer to lift access controller system)
- For more information, please refer to lift access controller system.

Special function(optional):

- Patrol card : recording data, not to open door.
- Clean card : opening for specific time zone.
- Opening with dual card: The open door function by using two cards to proximity at the special time zone.
- Combining access control with relay box for DI/DO control.
- Pair with relay box and mini electromagnetic lock(ex. PML-080) for locker or mail box management.
- Voice broadcast function : Divide two types of public affairs and private affairs, upload data to access controller after edit in software.
- Private affairs will be broadcasted in advance.
- Massage will be showed on LCD.

Specification

Model No.	 PP-35	 PP-36	 PZ-85	 PP-56	 PP-85	 PP-6750V	 PP-3790	 PP-3702/T	 PFP-3702V	 PP-2750V	 PP-3760V
Dimensions (L x W x H)mm	118 x 75 x 17	118 x 75 x 17	119 x 84 x 32	125 x 83 x 27	116 x 81 x 30	138 x 85 x 29	174 x 100 x 32	174 x 100 x 43		156 x 123 x 42	174 x 100 x 45
Doorbell	Yes (Optional)	---	Yes	---	Yes	- - -	- - -	Yes		- - -	- - -
Waterproof	Yes	Yes	Yes	---	Yes	Yes	Yes	---		- - -	- - -
Display	NO					16*2 rows of LCD	Type with graphic 144 x 64 pixel LCD	16*2 rows of LCD			
Power requirement	DC 12V±10%, standby current 30mA ±5% , working current 60mA ±5% (not including external power requirement for lock & alarm)					DC 12V±10%, standby current 80mA ±5% , working current 100mA ±5% (not including external power requirement for lock & alarm)					
Output interface	RS-485							RS-485 TCP/IP	RS-485, RS-232 TCP/IP	RS-485	RS-485& RS-232
Operating temperature	-20°C ~ 70°C										
Humidity	10%~90%										
Transmission rate	Default 9,600 bps N,8,1(2,400/4,800/19,200bps)(38,400<selectable>)										
Password	Programmable 4 digits PIN for each person.										
Serial output	1. For connection with serial printer. 2. To drive DDR (digital door relay) for secure assess control function. 3. To drive 8/24/48/64 relay output modules for lifts access control. 4. Bountiful application functions requested by customer.										
Events/card capacity	L Series: 2,000 card capacity,1,000 events. / P Series: 11,000 card capacity,8,000 events. X Series: 32,000 card capacity, 32,000 events. / V Series: 64,000 card capacity,64,000 events. T Series: 99,999 card capacity, 99,999 events. Other capacity combination requested by order										
User Capacity	---								3,000		---
Enrollment time	---								<3sec		---
1:1 Verification time	---								<1.5sec		---
Card standard	125KHz ASK EM / 125KHz FSK / 13.56MHz Mifare (ISO 14443A , ISO 14443B, ISO 15693) / 13.56MHz Felica (ISO 18092 UID) / Q type ※ Support customized card.										
Input	With one or optional two port for external Wiegand (26/34/35/36/37/40 bits definable by command) & ABA input(by order)										

Mifare is a registered trademark of NXP B.V.
FeliCa is a trademark of Sony Corporation.

Relay Box

Model NO.	PG-OUTMOD-8	POM-24	PG-OUTMOD-3024
Dimensions (L x W x H)mm	115 x 78 x 31	220 x 151 x 46	174 x 100 x 45
Material	ABS	Metal case	ABS
Interface	---	RS-485	RS-485
Relay	8	24	24
Power source	12V / 200mA	12V / 620mA	12V / 500mA

- Pair with relay box and elevator controller for elevator control system.
- Divide from A, form B for choosing. (set as from B in advance)
- Supports 8/24/48/64/96 relay box for 1~96 floors elevator access control.
- (The number of floors expansion from 24 floors plus the total.)

Elevator Access Controller Link With Intercom

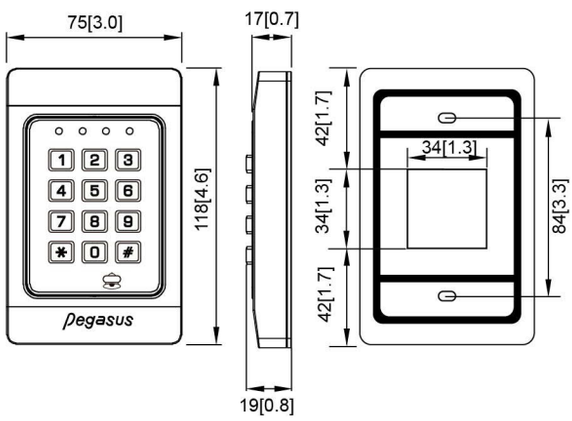
To authorize the visitor's access to elevator directly at home.

System introduction:

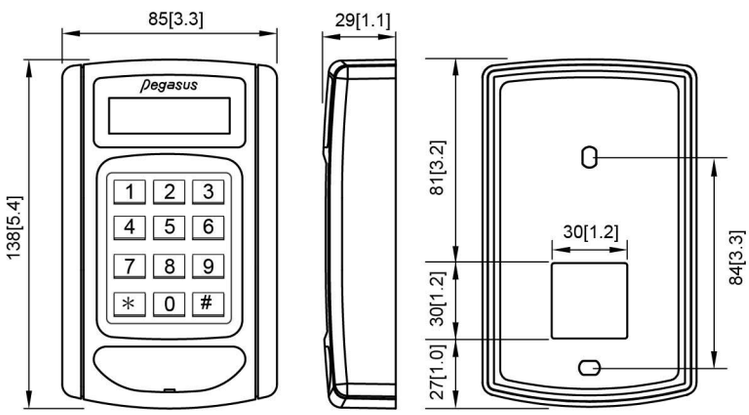
DIO-2408 is designed to work with 24-floor Elevator controller. It allow householder to press one button at home when visitor calls by door phone at front door to assign available floor for his/her visitors, so that the visitor could reach the desired floor with safety and it is convenient for efficient access control.

Model NO.	DIO-2408
Dimensions (L x W x H)mm	118 x 75 x 13
Operating temperature Humidity	-15°C ~ 55°C / 20%~90%
Interface	Open collector / RS-485 / RS-232
Current	Standby 25~35mA / Working 60~70mA
Power source	DC 12V

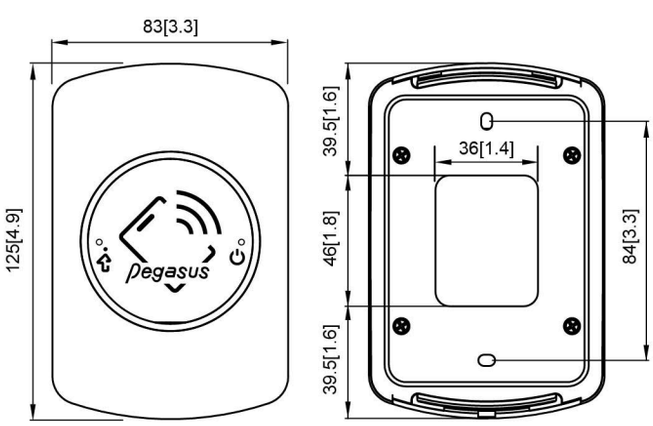
Dimensions mm[inch]



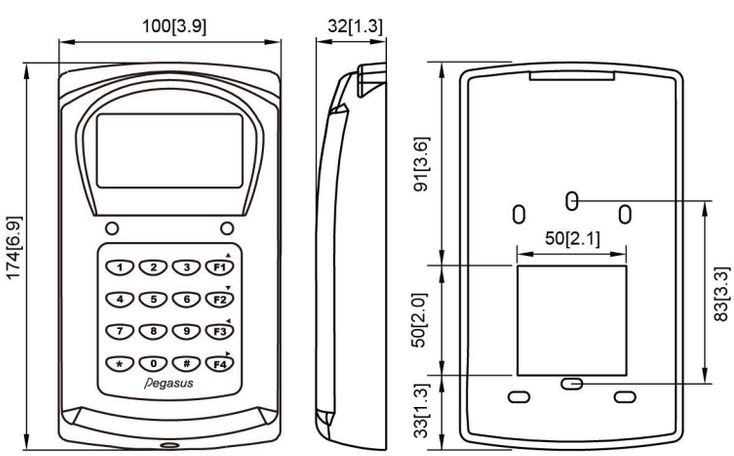
PP-35 / PP-36



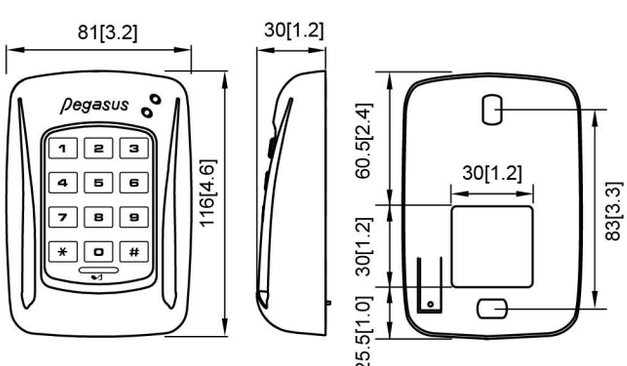
PP-6750V



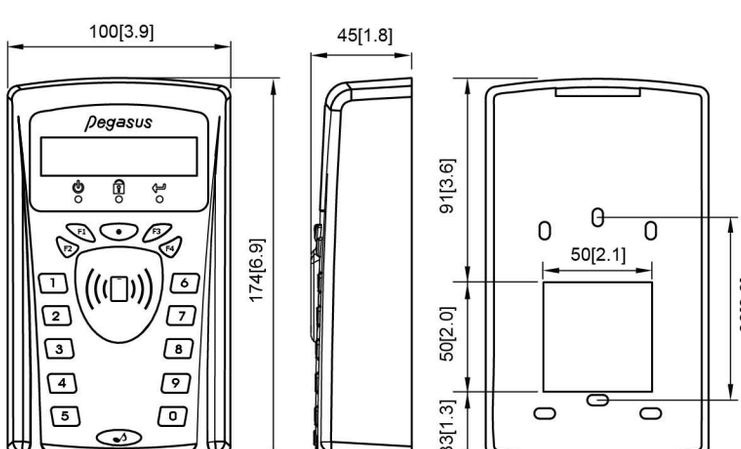
PP-56



PP-3790

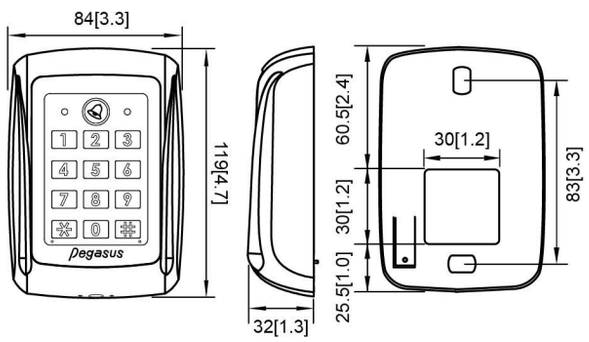


PP-85V

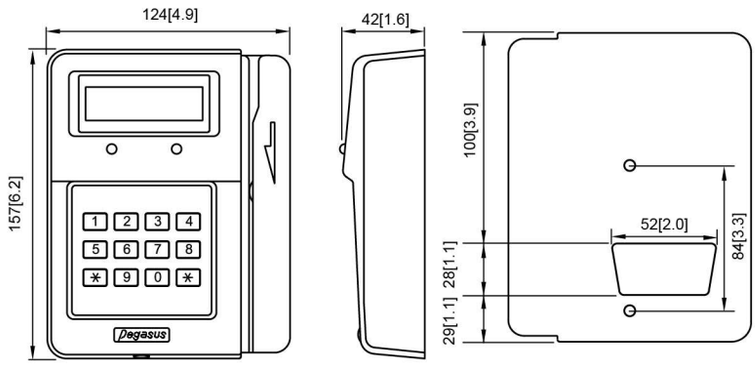


PP-3702T / PFP-3702

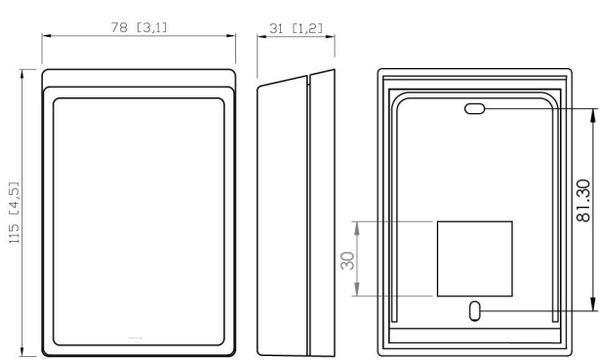
Dimensions mm[inch]



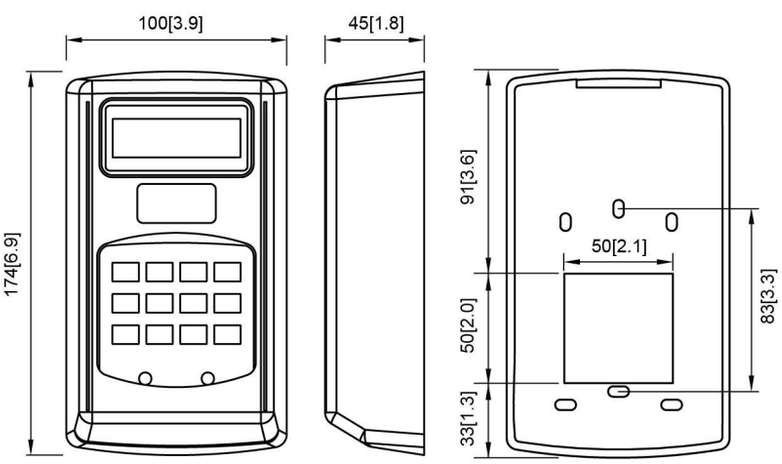
PZ-85



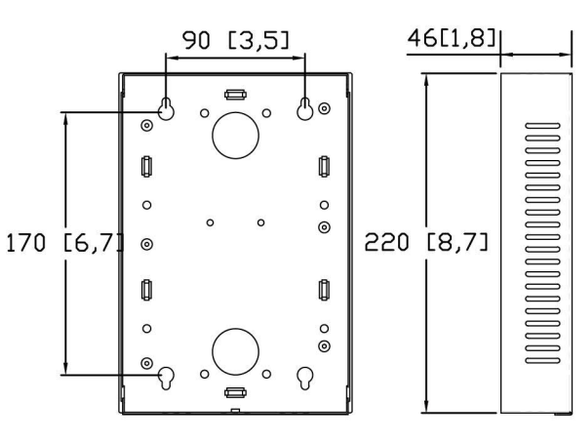
PP-2750V



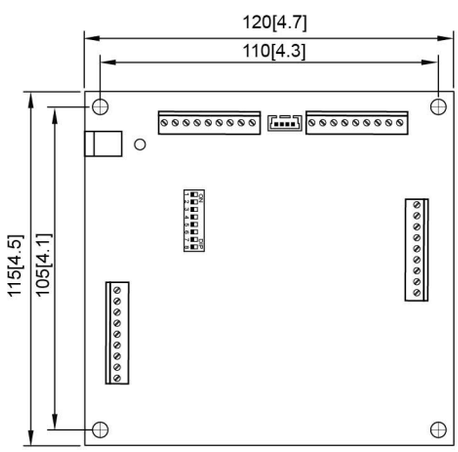
PG-OUTMOD-8



PP-3760V

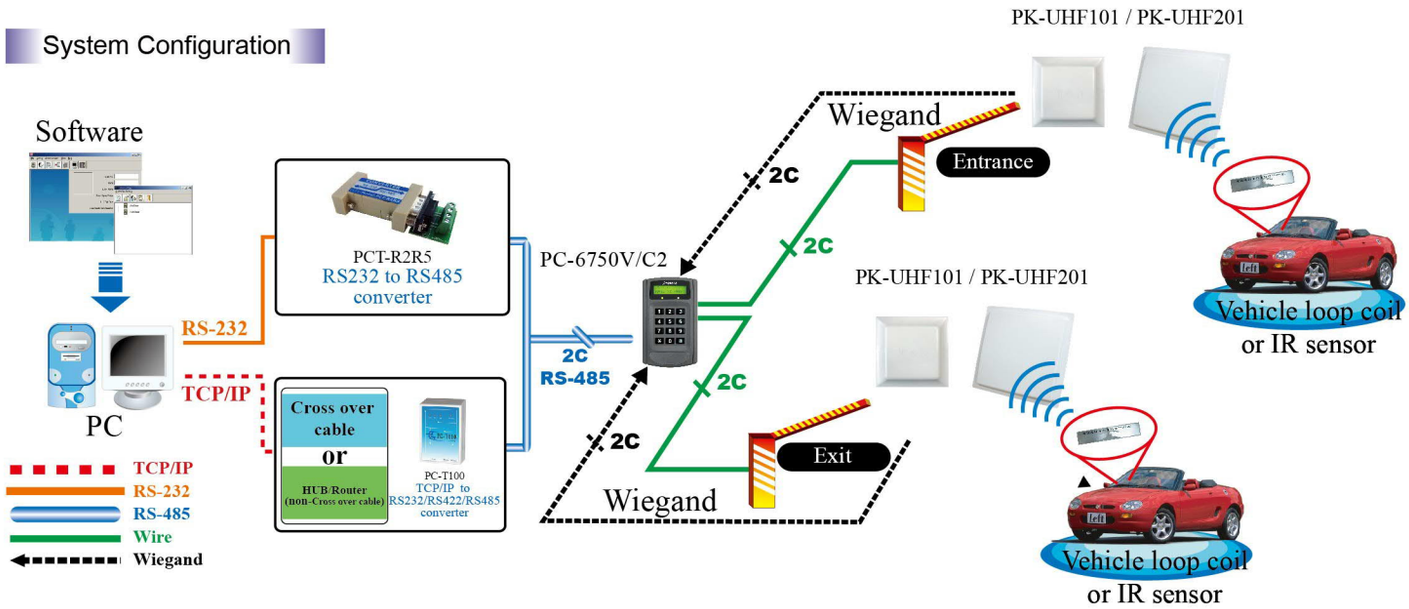


POM-24

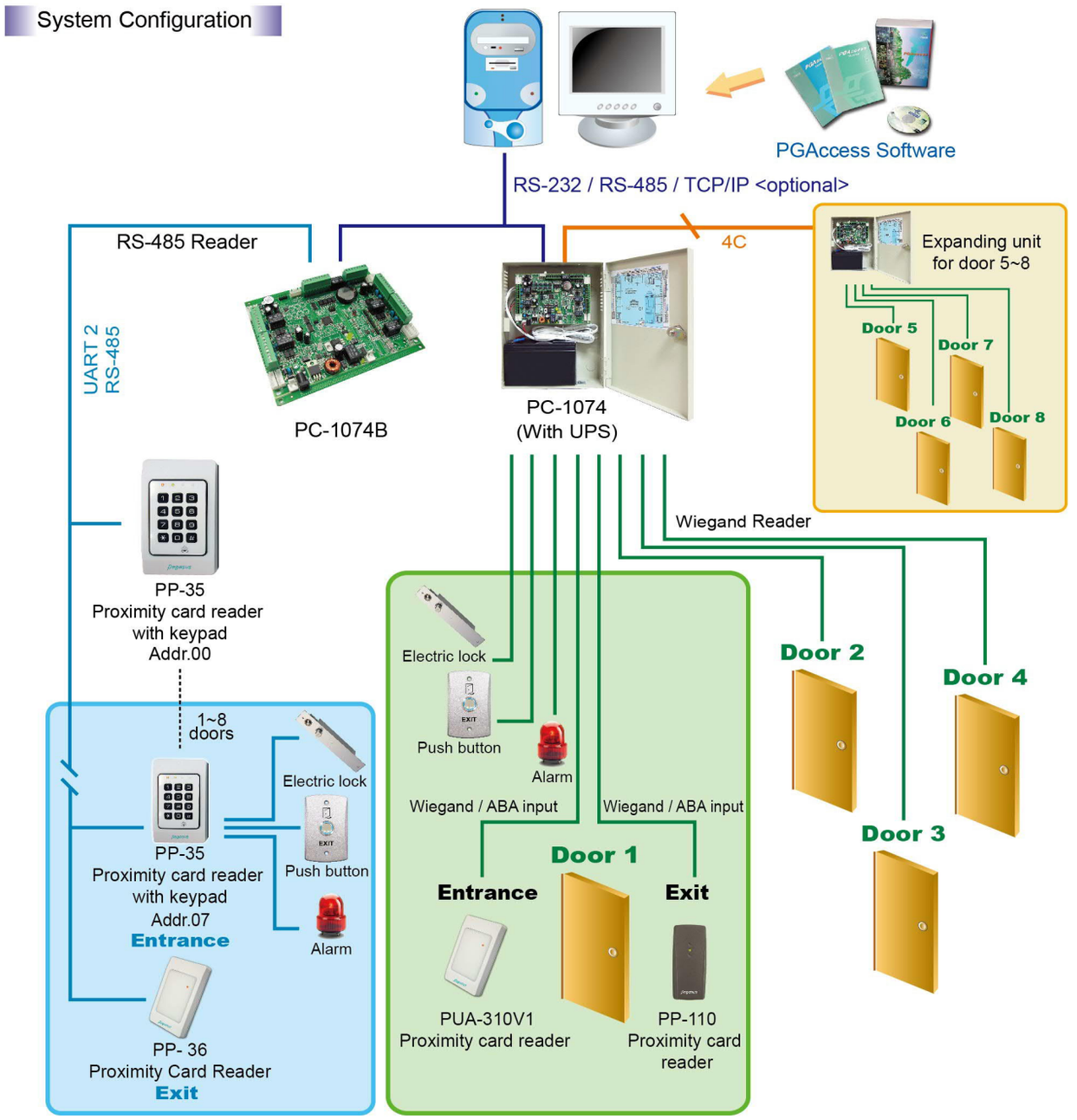


DIO-2408

System Configuration



System Configuration



Multi-Door Access Controller

Introduction

- The PC-1074 is designed for high-security access control and real-time monitoring environments from medium size to complex multi-site installations.
- It is an independent processing 4 doors access control package with metal enclosure, backup battery charger as an efficient space saving design.
- Suitable for applications with up to 64,000 users across a modular 1024 doors, allowing maximum flexibility for securing a growing enterprise. Each unit supports 8 Wiegands or RS-485 ports for entry & exit control.
- The system support Bar Code, Magnetic Stripe, Biometric and Smart Card Readers thru. Wiegand or ABA interface.
- Designed with 4 DI (digital input) and 4 DO (digital outputs) for light, air conditioning, surveillance, fire prevention or urgent rescuing system control.

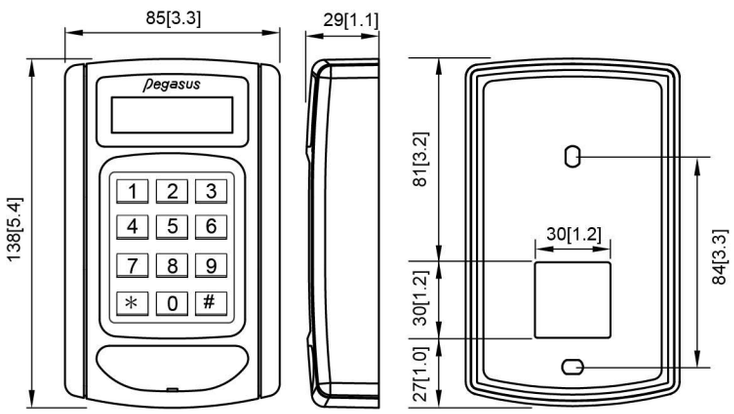
Features

- Online Network with on board selectable RS-485/RS-232/RS-422(optional) and TCP/IP Ethernet.
- Up to 15,000 cards with 32,000 events. Optional 64,000 cards with 64,000 events.
- Multi technology of badges include proximity, smart card, biometric, hand free active card, mag. cards, etc.,
- 8 wiegand readers for 4 doors. expandable to 16 wiegand readers for 8 doors. Optional 8 or 16 RS-485 readers for 8 doors by 2nd RS-485 port.
- 4 digital inputs and 4 digital outputs with expansible 24/48/64 relays output for floors control.
- Global (4 or expandable 8 doors) or single doors APB without PC autonomous decision at local level without degradation and removable connectors
- Optional baud rate from 2,400 to 38,400 with optional encryption for communication security.

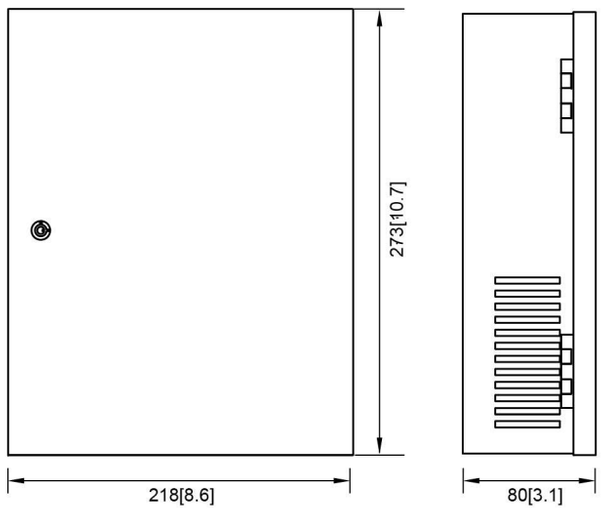
Specifications

Appearance		 Built-in TCP/IP		 Built-in TCP/IP			 Built-in TCP/IP
Model No.	PC-1074	PC-1074/T	PC-1074B	PC-1074B/T	PC-6750V/C2	PC-2750V/C2	PC-3702T/C2
Serial interface	RS-485, RS-232, RS-422(Optional)	RS-485, RS-232, TCP/IP, RS-422(Optional)	RS-485, RS-232, RS-422(Optional)	RS-485, RS-232, TCP/IP, RS-422(Optional)	RS-485, RS-232(Optional)	RS-485, RS-232(Optional)	RS-485, TCP/IP
Events	32,000 (64,000 <optional>)				32,000	32,000	32,000
Card capacity	15,000 (64,000 <optional>)				32,000	32,000	32,000
digital input(DI)	4 Pieces				—	—	—
digital outputs(DO)	4 Pieces				—	—	—
Anti-pass back	Yes				Yes	Yes	Yes
Global anti-pass back	Yes				—	—	—
Printer output	Yes				—	—	—
Door release time	Yes				—	—	—
Door monitor time	Yes				—	—	—
Push button	Yes				—	—	—
Time zone	8 personal time zones, 8 time zones for auto operation mode				—	—	—
Transmission rate	9,600 bps, N,8,1	9,600 bps, N,8,1 TCP/IP: 10/100M	9,600 bps, N,8,1	9,600 bps, N,8,1 TCP/IP: 10/100M	—	—	—
UPS	7.2A/H		—		—	—	—
Power supply/ Consumption current	DC 15V / 0.05A		DC 12V / 0.05A		DC 12V / 0.07A	DC 12V / 0.07A	DC 12V / 0.07A
External reader	Wiegand 26/34 bit, RS-485(Polliing)				Wiegand 26/34 bit	Wiegand 26/34 bit	Wiegand 26/34 bit
Operation temperature	-10°C~70°C						
Material	Metal case		PCB Only		ABS	Zinc alloy	ABS
Dimensions (L×W×H)	273 x 218 x 80 mm 10.7 x 8.6 x 3.1 inch		160 x 115 x 24.5 mm 6.3 x 4.5 x 1 inch		138 x 85 x 29 mm 5.4 x 3.3 x 1.1 inch	157 x 124 x 42 mm 6.2 x 4.9 x 1.6 inch	174 x 100 x 45 mm 6.9 x 3.9 x 1.8 inch
Weight	4.7Kg±5%		480g±5%		340g±5%	1Kg±5%	600g±5%

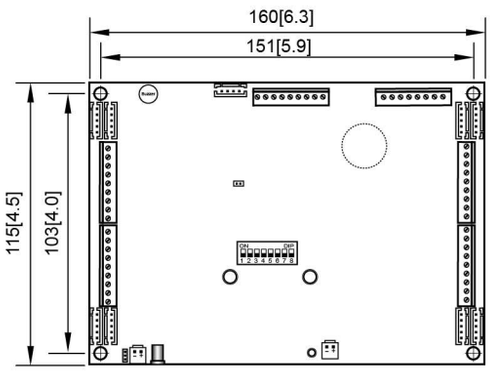
Dimensions mm[inch]



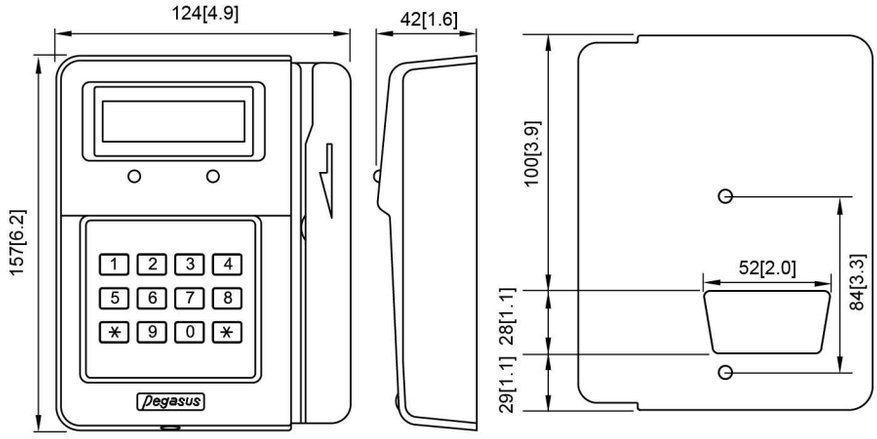
PC-6750V/C2



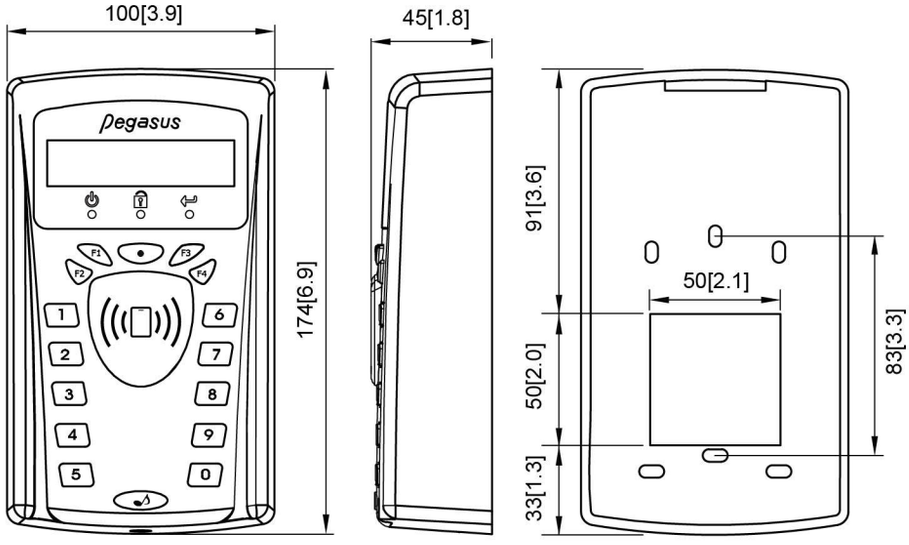
PC-1074



PC-1074B



PC-2750V/C2



PC-3702T/C2

Fingerprint Access Control and Time Attendance Recorder

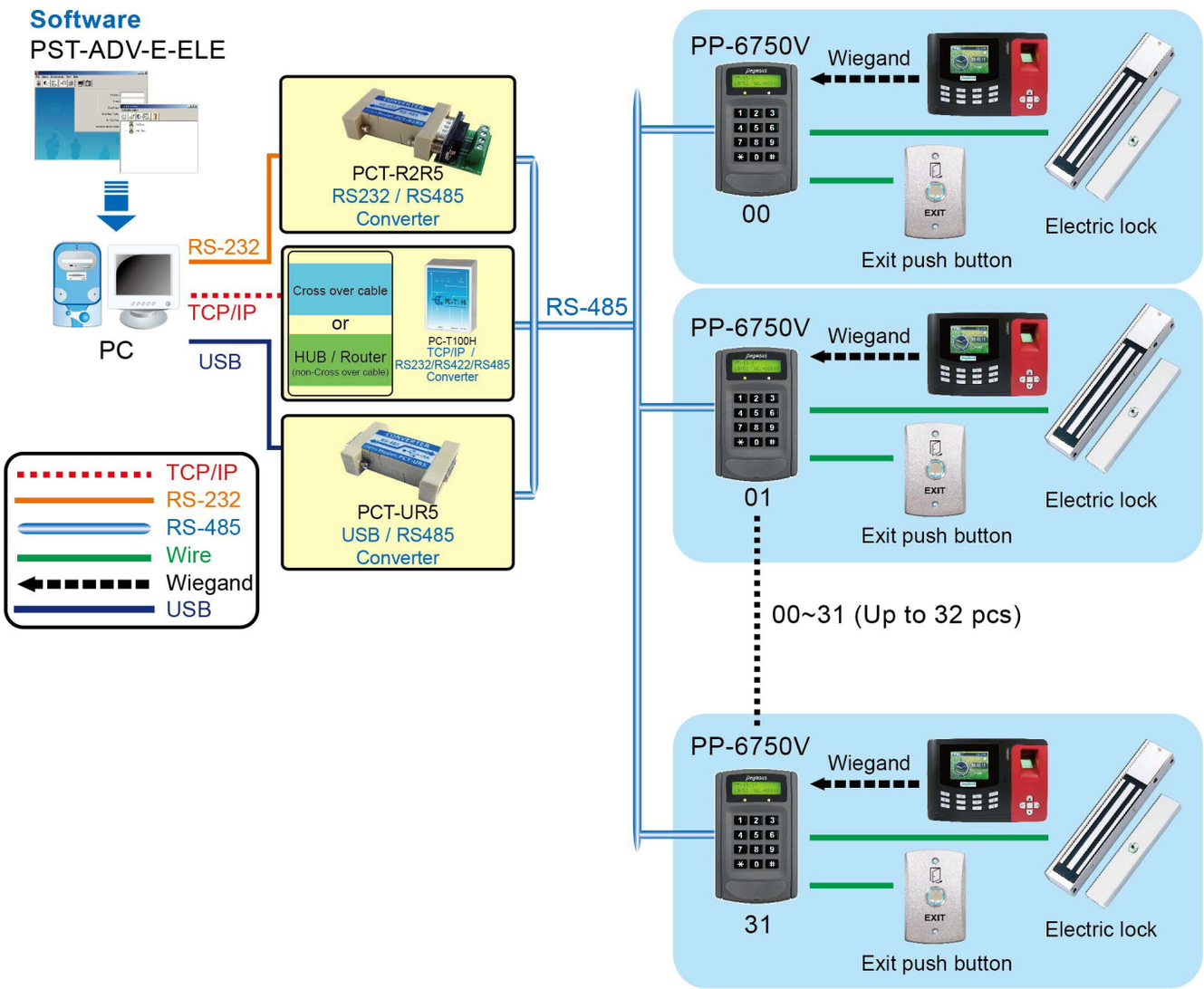
Introduction

- User-friendly manual design, make it more easily for operate.
- Data transfer support USB port or TCI/IP interface.
- Fingerprint identification speed quickly and with lower false positive rate, it's more safety and convenience
- All models minimum support 3,000 fingerprint.
- Support multi-language.

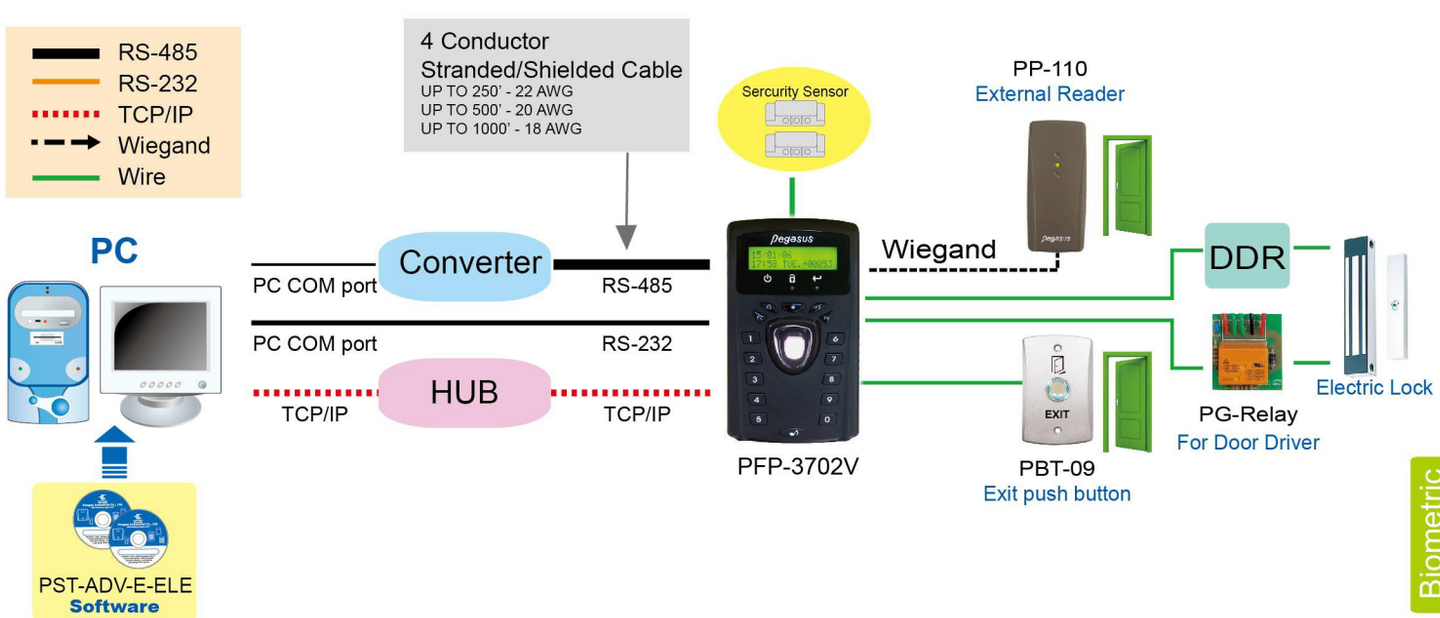
Specifications

Appearance		
Model No.	PFP-8032 Online	PFP-3702V Online
Dimensions(LxWxH)mm	185 x 128 x 45mm	174 x 100 x 43 mm
Color display	2.8" TFT 320 x 240 dpi	16*2 rows of LCD display
Authentication	Fingerprint、PIN、RFID	(1)Fingerprint (2)ID+Fingerprint (3)Card only (4)Card + PIN (5)Door PIN only (6)Card Number+PIN
Operation voltage	9~12V	12V
Frequency	EM 125KHz ASK Mifare 13.56MHz	EM 125KHz ASK Mifare 13.56MHz
Fingerprint recognition speed	<= 1.2S	<1.5sec
False Rejection Rate	< 0.01%	< 0.1%
False Acceptance Rate	< 0.0001%	< 0.001%
Backup battery (UPS)	YES	NO
Wiegand In	NO	Wiegand26 / 34bit
Wiegand Out	Wiegand 26 / 34bit	NO
Data communication channel	TCP/IP、USB	RS-485、RS-232、TCP/IP
USB disk	YES	NO
Language	English/ Traditional Chinese Optional: Spanish/ Thai/ Portuguese/ Vietnamese	English
Max. ID records	1,000	X Series: 32,000
Fingerprint Capacity	1,000	3,000
Max. management records	10,000	Max. 32,000
Max. attendance records	100,000	Max. 32,000
Door access	YES	YES

System Configuration



System Configuration



ESD Access Control System

PP-6750V/ESD

System Configuration

Introduction

The advanced Pegasus ESD ACS system is integrated with ESD Tester, contactless access system and ESD Management Application software. During the past the EPA (Electrostatic protection Area) control for the electrostatic shoes, wrist strap are mainly tested & recorded manually. It is easily making mistake, time wasting & difficult for auditing.

The Pegasus ESD ACS system is managed by PC software to make sure the person tester for the necessary ESD resistance value before entering various EPA area, record the access time and control the turnstile or release alarm to reject illegal access. Also, with the failsafe function of the turnstile or electrical locks in emergency to secure the personal life.

Features

- The system is mainly consisted of ESD Tester, ESD Access controller, Management Software, Communicators and the Electrical Gate Controller (Turnstile, strike or Power bolt).
- ESD permission has 8 options as checking Left and(or) Right hand and(or) the feet combination and the qualified impedance value range.
- The ESD tester PP-6750V/ESD provide permission level setting, inquiry, alarm function, test and record the PASS or NG judgment.
- The Access Controller equipped with LCD screen for taking the action, display the card & staff number, calendar year and date, clock, testing data and the error message.
- The Access controller could control the intelligent gating devices such as Turnstile, swing gate or plate gate. Also, it could control the electric locks such as power bolt, magnetic lock or strikes. The user also could push the exit button to go out.
- The ESD ACS can be integrated with Time attendance module, it can provide the ESD ACS access events served as Time Attendance data base to make many HR reports.

Application

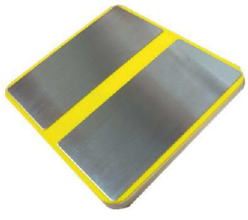
SMT production line, clean room such as semiconductor fab, high tech RD room, or military ESD sensitive areas, explosive processing areas, maintain or calibration areas for aero space industries, pharmacy , bio-chemical and hospital ESD restraint areas.

ESD testing controller with 7” LCD & relay board
PP-6806/ESD

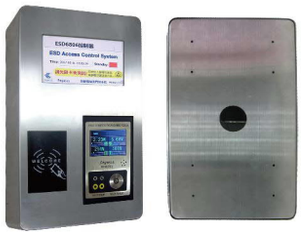
ESD tester
PE168-STG-2

RFID reader
PUA-310V1 Series

Anti static wrist strap
PK-62511-R



Static testing paddle
PE168-STC/T-1



Wall mounting box
PE168-BOX-1

Introduction

This system is the detection management of personnel enters EPA (ESD protected area). The system combinated with identification, electrostatic testing base on classified authority, ESD test records, report management and electric locks or access gates.

PP-6806/ESD

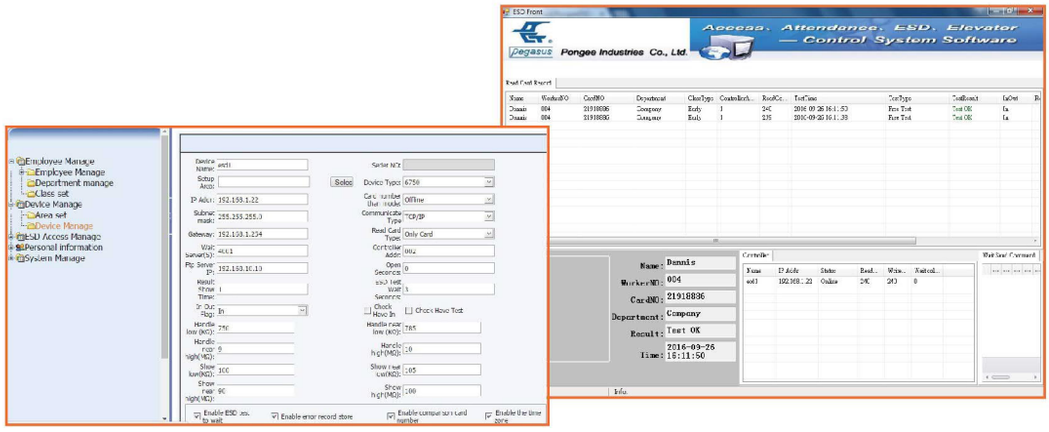
ESD testing controller with 7” LCD & relay board.

PE168-STG-2

ESD tester supports to check personnel grounding of either wrist straps or footwear. The standard resistance and near failure resistance can be set from the color screen login. You also can connect to ESD controller and then set by the ESD management software.

PUA-310V1 series

RFID reader applicable with EM (125KHz ASK), H.C. (125KHz FSK), Mifare cards etc.



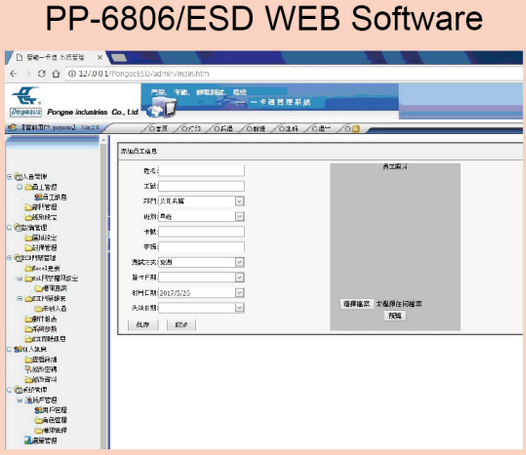
Configuration

User PC

PP-6806/ESD application software

1. Hardware to communicate with the database
2. Confirm the hardware connection status
3. Display personnel entry and exit information
4. Clear hardware access data

PP-6806/ESD WEB Software



1. Set up the hardware connection
2. Set personnel information
3. Modification of electrostatic test items
4. Data export

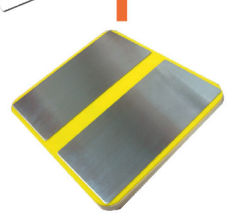
PP-6806/ESD
SQL Database

Network

Network

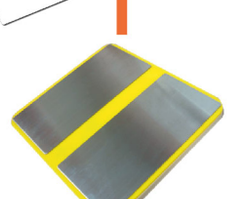
PP-6806/ESD

Card



PP-6806/ESD

Card



Specification

Model No.	PP-6750V/ESD	PE168-STG-2
Power supply	DC 12V 80mA~100mA	DC 8-12V 100mA
Weight	340g± 5%	622 g±5%
Dimension	137x85x29mm	162x102x27.5mm
PP-6750V/ESD		
Transmission rate	Default 9,600 bps N,8,1(2,400/4,800/19,200bps)(38,400)	
Operating temperature	-20℃ ~ 70℃	
Operating humidity	10%~90%	
Serial interface	RS-485	
Events/ Card capacity	P Series: 11,000 card capacity,8,000 events. X Series: 32,000 card capacity, 32,000 events. (Other capacity combination requested by order)	
Card standard	125KHz ASK EM / 125KHz FSK / 13.56MHz Mifare (ISO 14443A , ISO 14443B, ISO 15693) / 13.56MHz Felica (ISO 18092 UID) / Q type ※ Support customized card	
PE168-STG-2		
Output signal	ThreePASS Channels(Be connected to the input port of PP-6750V/ESD)	
Test voltage	10V±10%	
Resistance range	100KΩ~1000MΩ	
Accuracy	±10%	
Test period	≤0.35 S/Channel	
Communication	RS-485	
Operating temperature	Indoor, 0℃~50℃	
Operating humidity	0%~80%	
Voice Alarm	Yes	
Resistance value display	Yes	
Display screen	3.5 inch color LCD TFT Touch screen display, split screen display	
Measuring types	Wrist wrap of single line or double lines and ESD shoes	
Wrist sockets	One wire with two sockets, two wires with two sockets.	
Test button	Touching button, unlike press button with spring, durable and stable.	
Pass/NG Output	PASS/NG signal : Relay output in dry contact signal	

- The ESD testing controller is designed with 7” LCD to display operating guide, name, department, card number, ID, date, time, communicating status, set high/low-end resistance and detected resistance.
- Depends on different personnel, the system cab be configured with classified authority. (exempted, wrist band, conductive/anti-static shoes or comprehensive test)
- Supports various identification such as RF card, fingerprint, face, palm vein, iris and barcode etc.
- Standalone mode supports maximum 50000 users recoganization and event recording.
- Built-in TCP/IP convenient software management.
- The ESD tester only detect once legal card presented to prevent any random operation, and the detection finish in 3 seconds.
- Supplies alarm output once illegal card presented or continuous test fail via I/O relay output.
- Web-based management software and SQL database.
- The management software supports variety of reports (sort by month, date, department, personal or all kinds of error) automatically or manually to specific e-mail address.
- Anti-pass-back control.
- Supports Short-term immunity function. For shorten detection time to access, the system can be set for identification only without ESD test within a few hours after first detection passed.


Pillar type of testing terminal


Bridge type of turnstile gate


Bridge type of flap barrier with bevel panel


Bridge type of flap barrier with vertical panel

433.9 MHz Wireless Transmitter System

PR-105GM

PR-106M

PR-6750V

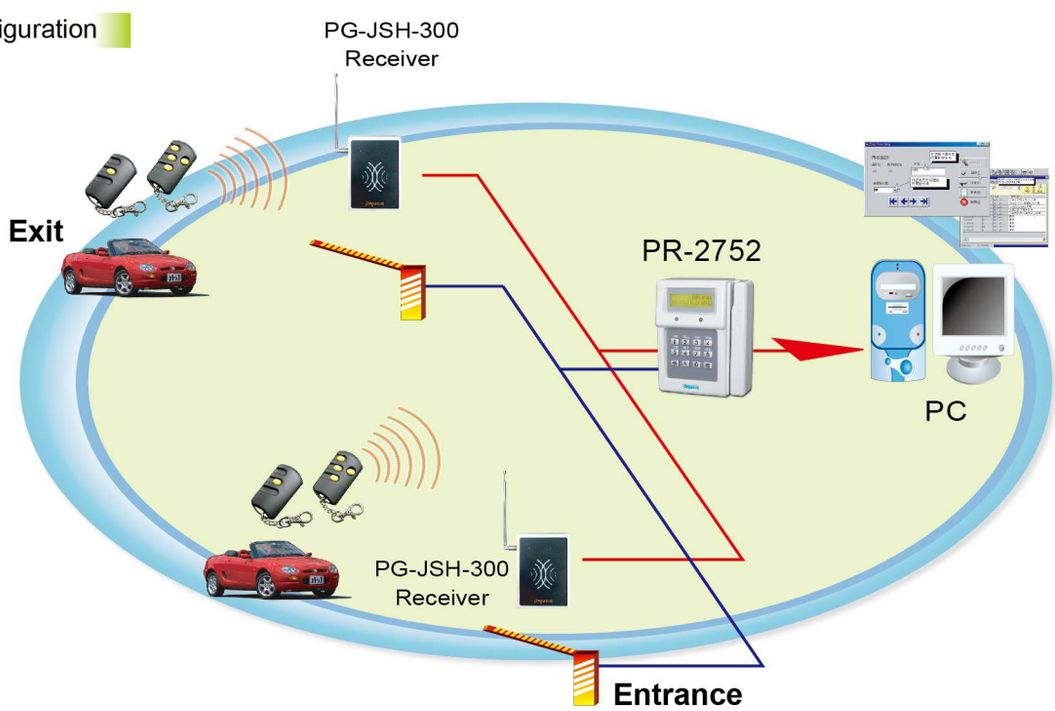
DUAL FREQUENCY 125KHz 433.9MHz

PR-2752

Transmitter series

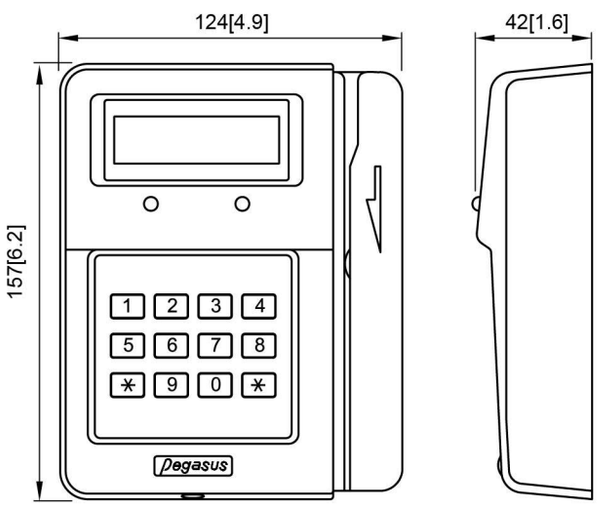
PTX-201 PTX-204 PTX-404A PTX-502 PTX-504

System Configuration

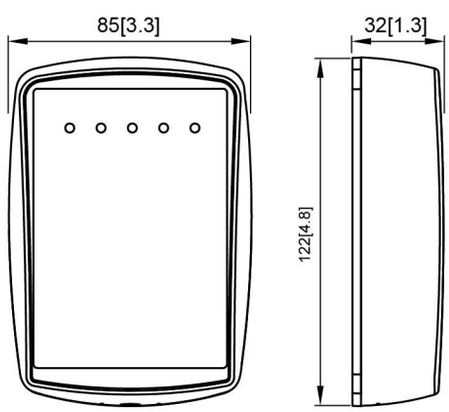


System Configuration

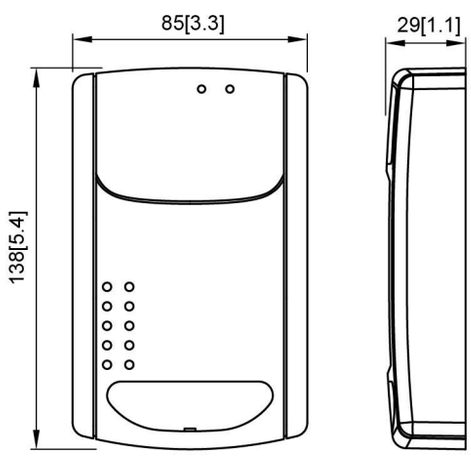
Dimensions mm[inch]



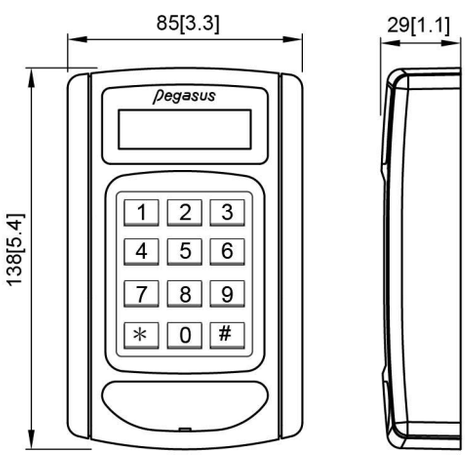
PR-2752



PR-105GM



PR-106M



PR-6750V

433.9 MHz Wireless Transmitter System

Specifications

Appearance						
Model No.	PR-2752	PR-6750V	PR-6750V/N		PR-105GM	PR-106M
Frequency	433.9MHz	433.9MHz	125KHz &433.9MHz		433.9MHz	433.9MHz
Reading range	15m	15m	Card	(T)0.8mm:7±1cm (T)1.8mm:9±1cm	15~20m	15~20m
			Transmitter	15m		
Transmitter ID's	9,999 pieces	1,000~ 32,000 pieces (Depend on version)			40 pieces	40 pieces
Transmitter Model No.	PTX-201 / PTM-201 / PTM-201/Mn※ PTX-204 / PTM-204 / PTM-204/Mn※	PTX-201 / PTM-201 / PTM-201/Mn※ PTX-204 / PTM-204 / PTM-204/Mn※			PTX-201DF PTX-204DF (PTX-204DF with Relay ON, Relay OFF, Adjustable opening time functions)	PTX-201DF / PTX-204DF
Receiver	For external PG-JSH-300 receiver	Built-in receiver module			Built-in receiver module	Built-in receiver module
Relay	For external PG-OUTMOD-4 relay box (With up .stop .down and power outage relay)	For external PG-OUTMOD-4 relay box (With up .stop .down and power outage relay)			Built-in 1 piece	Built-in 4 pieces (With up .stop . down and power outage relay)
Operation voltage /Current	DC 12V±10%, 180mA(Standby) / 200mA(Work)	DC 12V±10%, 80mA(Standby) / 100mA(Work)			DC12V ±10% 20mA(Standby)/ 60mA(Work)	DC 11V~DC 16V 25mA(Standby) / 45mA(Work)
Operating temperature	-10°C~75°C	-10°C~75°C			-10°C~75°C	-10°C~75°C
Material	Zinc Alloy	ABS			ABS	ABS
Dimensions (LxWxH)mm	156x123x42	137 x 85 x 29			122x85x32	137x85x28
Weight	1370g± 5%	340g ± 5%			140g±5%	360g ±5%

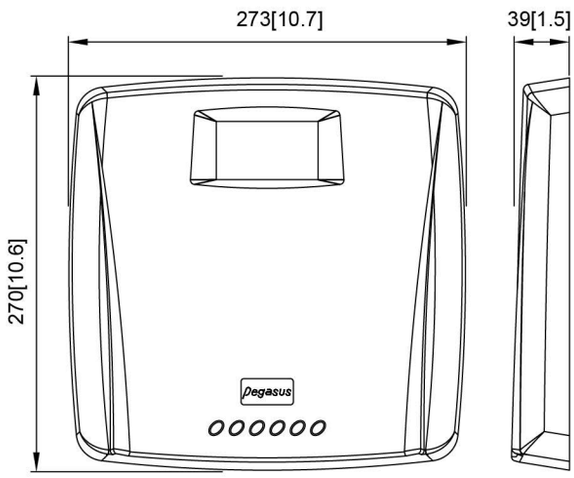
Transmitter series

Appearance								With antenna to extend reading range 		
	With a power-saving switch									
Model No.	PTX-201G With project No.	PTX-201	PTM-201	PTM-201/Mn※	PTX-204	PTM-204	PTM-204/Mn※	PTX-404A	PTX-502	PTX-504
Embedded RFID chip	NO	NO	YES	YES	NO	YES	YES	NO	NO	NO
Button	1 piece	1 piece	1 piece	1 piece	4 pieces	4 pieces	4 pieces	4 pieces	2 pieces	4 pieces
(Transmit) Frequency	433.9MHz	433.9MHz	125KHz 433.9MHz	13.56MHz 433.9MHz	433.9MHz	125KHz 433.9MHz	13.56MHz 433.9MHz	433.9MHz	433.9MHz	433.9MHz
Power	Battery (12V 27A)x 1 piece							Battery (12V 23A) x 1 piece	Battery (12V 27A)x 1 piece	
Operating temperature	-10°C~70°C									
Material /Color	ABS/Black							ABS / Wood grain	Metal / Black	
Dimensions(LxWxH)mm	65x36x13							60x30x12	55x29x13	58x31x14
Weight	38g± 5%							42g± 5%	42g± 5%	40g± 5%

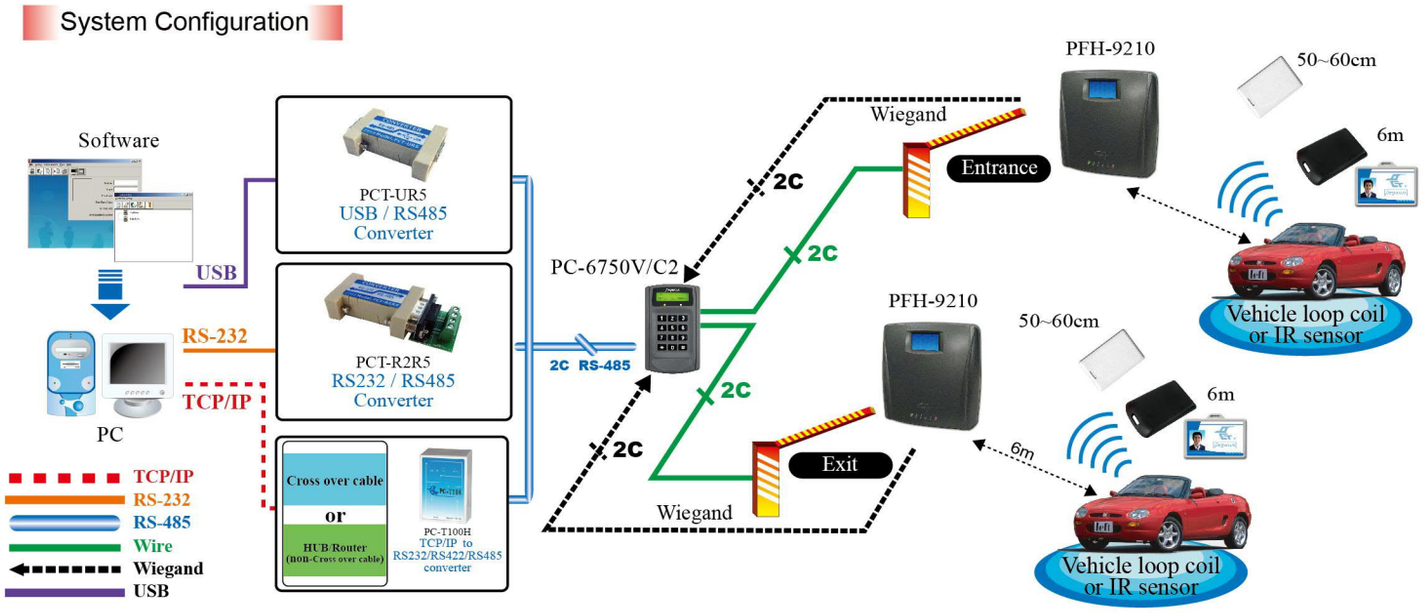
※Mn: M0：Reading Mifare UID (Serial No.)
M1：Mifare sector number assigned by Pegasus for specific customer. (with proprietary key)
M8：Reading card number from Mifare block 8 by factory defaulted key.

PTX-404A / PTX-502 / PTX-504:The minimum order quantity: 500 pcs

Dimensions mm[inch]



System Configuration



Introduction

The Pegasus PFH-9210 series are long range readers designed for hand free personal & vehicle access control, product tracking, vehicle & driver ID, process control and so on applications. Depending on models, the PFH-9210-60 reader can read the passivecard up to 60 cm, PFH-9210-620 can read active tag of PFH-620 / PFH-650 active tag to max. 6 meters reading range.

The PFH-9210 series readers can read cards or multiple tags and then provide the different signal formats including Wiegand, ABA, RS-232C or RS-485 and USB (optional). Multiple formats outputs in simple reader is possible to enable more than two data acquisition systems to be addressed simultaneously according to the reader configuration.

Features

- Elegant design of PFH-9210 series.
- PFH-9210-60 pair with passive EM card for 50~60 cm contactless reading range.
- PFH-9210-660 with dual frequency technologies for vehicle & personal identification (both 125 KHz & 433.9 MHz).
- Build-in beeper sound with four color LED (Red/Green/Amber/Light) indicators.
- Waterproof seal and potted epoxy for weather resistant and suitable for indoor / outdoor operation.
- Graceful & robust ABS case with screw hole and tamper switch output to prevent vandalism.
- Well automatic tuning to prevent frequency shifting.
- Better performance than UHF in penetrating through the shield window.
- Be able to pair with Pegasus controller (Pegasus format, or wiegand format), Pegasus controller has two built-in relay and can connect two pieces of PFH-9210 series for in/out control.

Application


Vehicle access control system


Personal ID access control


Hand free applications


Property management

Specifications

Long Range Proximity Reader

Appearance					
Model No.		PFH-9210-30/Q	PFH-9210-60	PFH-9210-620	PFH-9210-660
Operating Frequency	Transmit	Q Type	125KHz	125KHz	125KHz
	Receiving	Q Type	125KHz	433.9MHz	125KHz/433.9MHz
Applicable Cards		Q Type card: PG-PROXS-Q10-B1 Q Type tag: PG-PROXK-Q10-B1	EM card: PG-PROXS-L-B1	RF Hand Free Card: PFH-620/PFH-650	EM card: PG-PROXS-L-B1
Reading Range		Max. 30cm	Max. 50~60cm	PFH-620: Max. 6m PFH-650: Max. 6m	PG-PROXS-L-B1: Max. 40cm PFH-620: Max. 6m
Reading Angle		120 º	120 º	360 º	120 º / 360 º
Output Format		Wiegand 26 / 34bit	Wiegand 26 / 34bit RS-232 / RS-485	Wiegand 26 / 34bit / ABA / RS-232 / RS-485	
Indications	LED	2 pieces of LED		3 pieces LED	4 pieces LED
	Buzzer	Built - in		No (Built-in driver for external buzzer)	Built - in
Operating Voltage / Current		DC 12V/100mA	DC 12V/200mA	DC 15V/320mA	DC 12V/200mA
Operating Temperature		-10ºC ~ 60ºC			
Storage Temperature		-20ºC ~ 85ºC			
Humidity		10% RH ~ 90% RH Non condensing			
Material / Color		ABS / Black			
Dimensions(L×W×H)mm		273 × 270 × 39			
Weight(including epoxy)		2.0Kgs±5%			

Applicable Card

Appearance				
Model No.		PG-PROXS-L-B1	PFH-620	PFH-650
Card Type		EM Card	RF Hand Free Card	RF Hand Free Card
Operating Frequency	Transmit	125KHz	433.9MHz	433.9MHz
	Receiving	125KHz	125KHz	125KHz
Reading Range		Max.50~60cm	Max.6m	Max.6m
			Depending on environment	Depending on environment
Capable Of Battery		NO	Battery(CR2032)x 2 pieces	Battery(CR2032) x 4 pieces
Operating Temperature		-10°C~50°C	-10°C~70°C	-10°C~120°C
Material / Color		PVC/White	ABS/Gray	PC/Black
Dimensions(L×W×H)mm		85x54x1.8	85x54x8	87x55x7
Weight		10g	38g	31g

Optional Accessory

PFH-9210 Series Bracket :PGV-BRACKET/205N

Vehicle loop detector:PK-PD-232

IR Sensor:LK-12HD

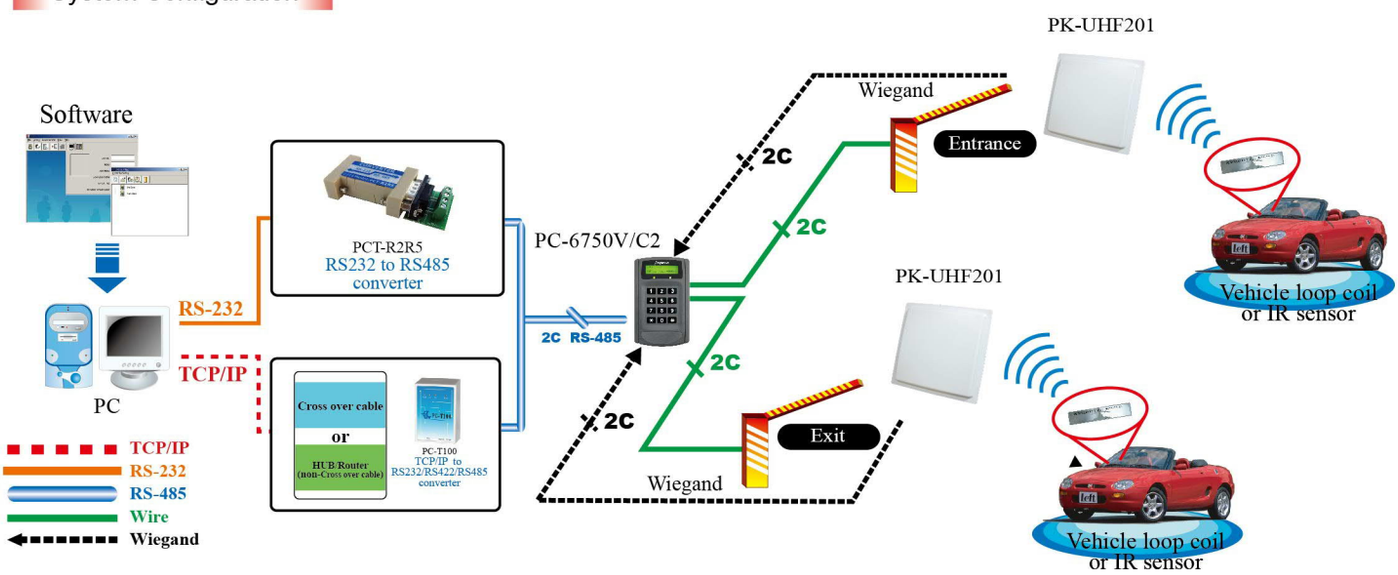
PK-UHF101U

PK-UHF101E

PK-UHF201U
PK-UHF201E

PFU-9210
(Controller & Reader)

System Configuration



Introduction

- PK-UHF101 / PK-UHF201 is one of high-performance UHF frequency reader, combining proprietary signal processing algorithms and efficient, with a high recognition rate processing performance and fast read and write, can be widely used in logistics, parking systems, access control systems, security systems and production process control, and other radio frequency identification(RFID) systems.

Features

- Protocol comply with UHF EPC Gen2(ISO18000-6C), ISO 18000-6B standard.
- Working frequency 902～928MHz(PK-UHF101U / PK-UHF201U) / 865～868MHz(PK-UHF101E / PK-UHF201E)
- Support adjustable frequency range (FHSS) or fixed specific working frequency.
- Power output 0-30dBm (adjustable)
- Built-in 8dBi/12dBi polarized antenna as choice：Reading range 5~8M / 15M.
- Support operation Modes as Answer, Active, Trigger mode.
- Low power design, Input Power: DC +9V.
- Support RS-232, RS-485, Wiegand 26/34 Interface.

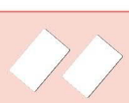
Long Range UHF RFID Reader And Writer

Specifications

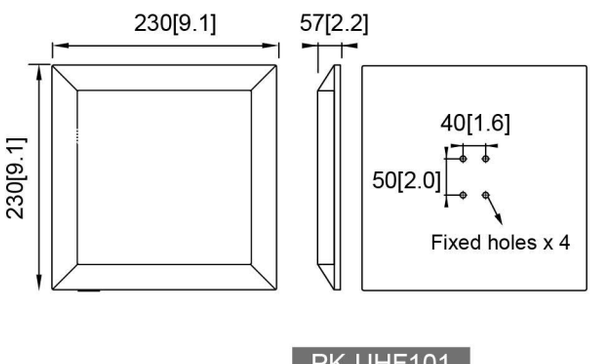
Long Range UHF RFID Reader And Writer

Model No.	PK-UHF101U	PK-UHF101E	PFU-9210	PK-UHF201U	PK-UHF201E
Dimension	230 x 230 x 57mm	255 x 255 x 35mm	273 x 270 x 39mm	445 x 445 x 55mm	
Net Weight	900g	900g	1300g	2600g	
Protocol	ISO18000-6B, EPC Class 1 Gen2(ISO18000-6C)				
Protection Grade	IP54				
Work Frequency	Standard ISM 902~928MHz(PK-UHF101U / PK-UHF201U / PFU-9210)(ANSI Standard), 865-868MHz(PK-UHF101E / PK-UHF201E)(British Standard)				
Frequency Hopping	FHSS				
Power Output	0-30dBm(adjustable)				
Antenna	Built-in 8dBi linearized polarized antenna			Built-in 12dBi linearized polarized antenna	
Interface	RS232, RS485, wiegand 26/34(TCP/IP,Wifi can be customized)				
Operating Mode	Answer,Active,Trigger				
Read Range	5~8m			3~25m	
Reading Speed	10ms / tag				
Reading Clue	Buzzer				
Input Power	100-240V,DC+9V (Power Adapter)				
Operation Temp	-20°C~+70°C				
Storage Temp	-25°C~+80°C				
Humidity	80%				
Regulatory	Compliant with CE,FCC				
Additional services	Provide Demonstration software and SDK(VC, VB, C#, VB.NET, C++) for further development				

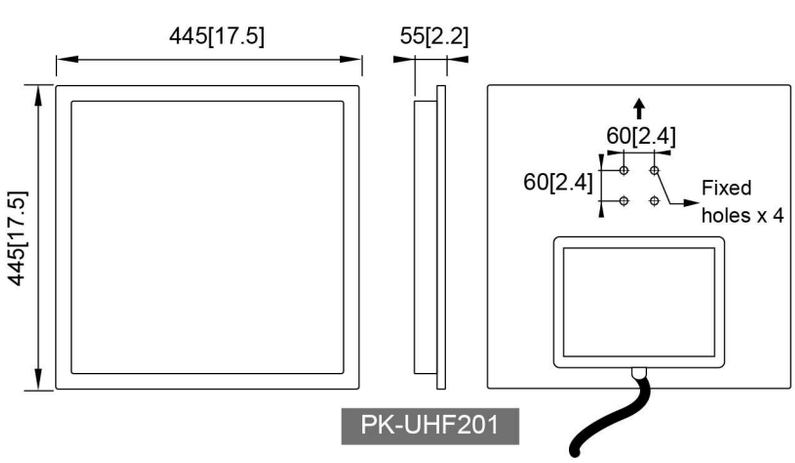
Applicable Card

Appearance							
Model No.		PG-PROXL-6C-B2	PG-PROXL-6C-1-W1	PG-PROXC-UHF-B1	PG-PROXL-6C-UHF-B1	PG-PROXL-6C-2-B1	PG-RPOXL-UHF-A
Card Type		UHF Label (For motorcycle)	UHF Label (For motor)	UHF card	UHF Label	UHF Label	UHF Label (Transparent)
Operating Frequency	Transmit	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz
	Receiving	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz	860MHz~960MHz
Reading Range		12m (Depending on antenna /reader)	9~12m (Depending on antenna /reader)	0~15m (Depending on antenna /reader)	9m (Depending on antenna /reader)	9~12m (Depending on antenna /reader)	9~12m (Depending on antenna /reader)
Operating Temperature		-15°C~60°C	-25°C~60°C	-10°C~50°C	-25°C~60°C	-25°C~60°C	-25°C~60°C
Material / Color		PVC, PET, silver	PVC, PET, silver	PVC/White	PVC, PET, silver	PVC, PET, silver	PVC, PET, silver
Dimensions(L×W×H)mm		105 x 6.5	96 x 22	85x54x1	97x15	95x21	73x21
Weight		0.6g	1g	5.8g	1g	1g	1g

Dimensions mm[inch]

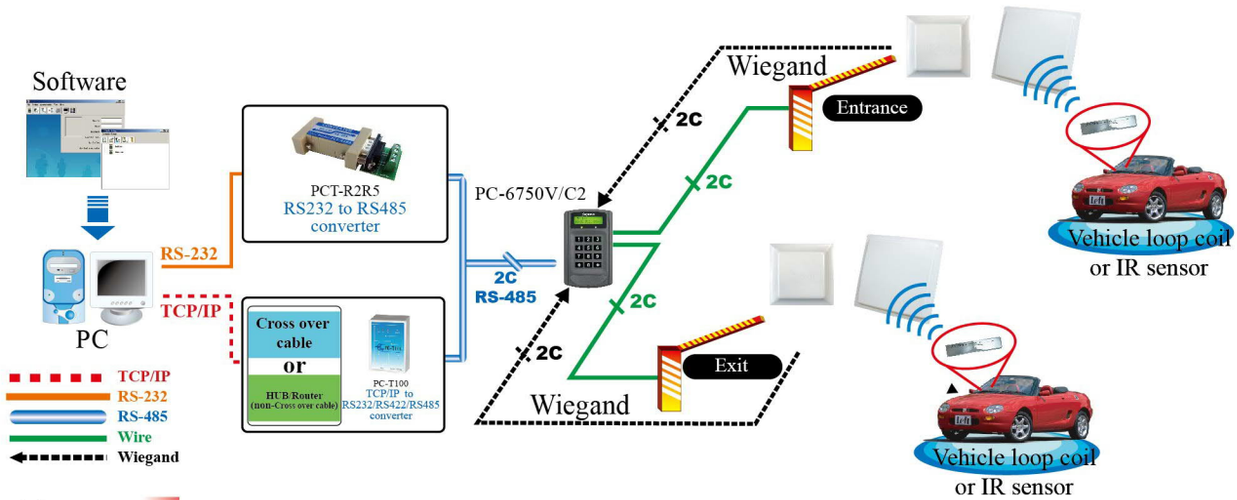


PK-UHF101



PK-UHF201

Configurations



Optional Accessory

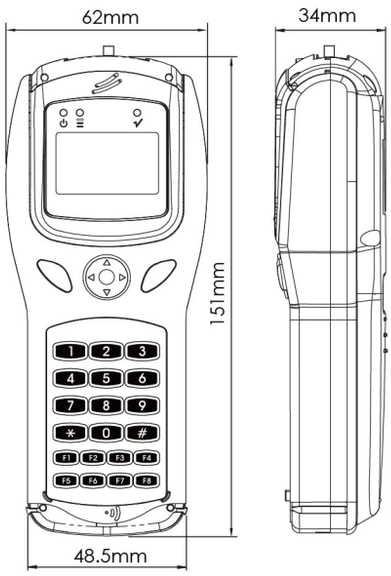
◆ USB type reader support easier ID number collection & registration for access control system.

PK-UHF701U2
USB type reader

Ordering information

Model No.	Work Frequency		With LED	Interface		With Relay
	865-868MHz	902~928MHz		RS-232, RS-485, Wiegand 26/34	TCP/IP	
PK-UHF101E	●			●		
PK-UHF101U		●		●		
PK-UHF101UL		●	●	●		
PK-UHF101ET	●			●	●	
PK-UHF101UT		●		●	●	
PK-UHF101EY	●			●		●
PK-UHF101UY		●		●		●
PK-UHF101ETY	●			●	●	●
PK-UHF101UTY		●		●	●	●
PK-UHF201E	●			●		
PK-UHF201U		●		●		
PK-UHF201EL	●		●	●		
PK-UHF201UL		●	●	●		
PK-UHF201ET	●			●	●	
PK-UHF201UT		●		●	●	
PK-UHF201EY	●			●		●
PK-UHF201UY		●		●		●
PK-UHF201ETY	●			●	●	●
PK-UHF201UTY		●		●	●	●

PPT-350



Portable UHF RFID Reader (PPT-350SWL)

License Plate Management

Security Patrol

Equipment inspection

- Support USB interface.
- Battery Embedded.
- Reading range : Max. 35cm
- Events : 1,000
- Frequency : 860~960MHz

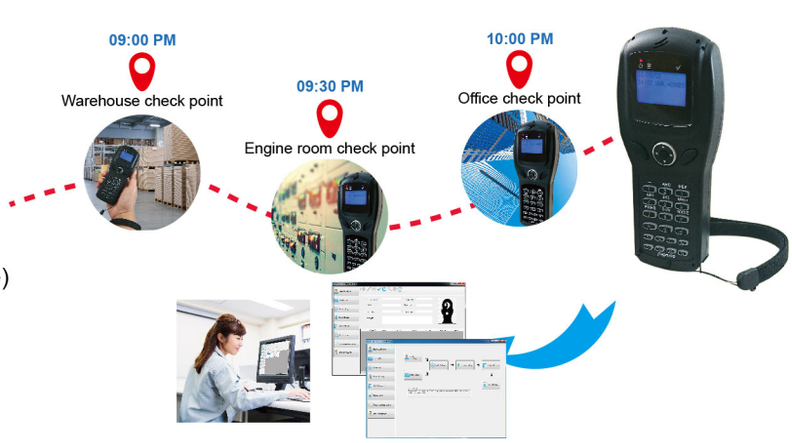
Guard Patrol Tour Terminal (PPT-350SWX)

Features

- One-touch operation: pressing a button for reading ID card.
- Modern design with multiple function code.
- With LCD display, real time clock and memory for event recording.
- Download the data thru. USB interface and then generate the report by the **PATROL MANAGER** software.
- Battery Embedded.
- Modify the card no. display time(01~60sec.)

Specifications

- RFID Frequency : 125KHz(EM) / 13.56MHz(Mifare)
- Interface : USB
- Events : 32,000
- Stand-by time : 20 hours
- LED : Power and status LED
- Identity code : Decimal, 8 digits
- Reading range : Max.8cm(EM) / Max.3.5cm(Mifare)
- Power supply : USB 5V / 3.7V(Lithium Battery)
- Operating temperature : -10℃ ~ 75℃
- Storage temperature : -10℃ ~ 85℃
- Dimensions : 151 (L) x 62 (W) x 34 (H) mm
- Net weight : 117g±5%(without battery)



Applications

- Policeman or Military patrolling
- Security personnel patrolling
- Remote equipment inspections/maintenance
- Goods delivery, transportation management

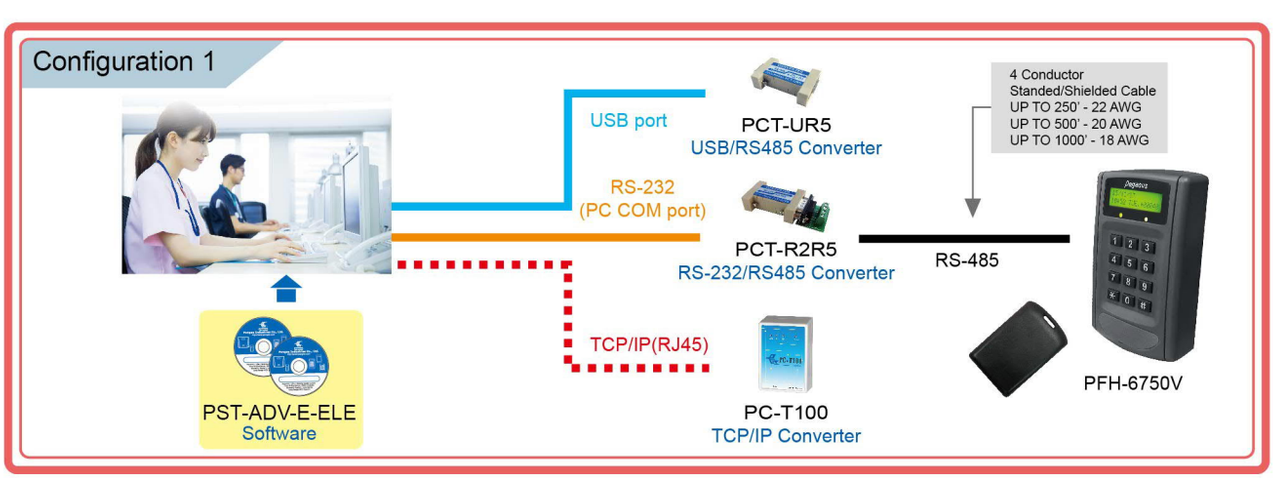
PFH-240
2.4G Active Card

PFH-5210
2.4G Reader
(Optional)

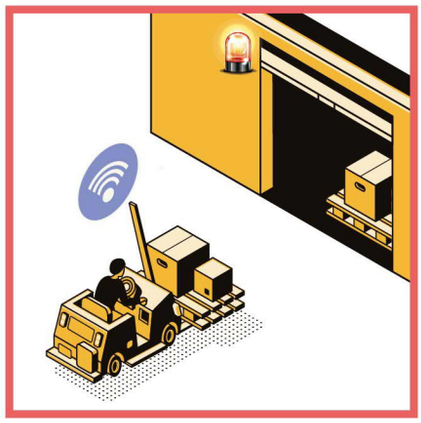
PFH-6750V
2.4G Active
RFID Access Control / Reader
(Receiver inside)

Introduction

- PFH-6750V is access controller with built in long range RFID reader that worked at 2.4GHz with stably sensitivity and excellent anti-collision performance.
- LCD displays card number and related information, built-in memory records time and access control that can be collected by software for further application or integrated with other security devices.
- Supplies variety reading range for option (15M/10M/3M or less).
- Supports maximum 80 cards reading simultaneously.
- Can be set for a period of time without repeat reading.
- PFH-5210 is Wiegand reader that can be interfaced with Pegasus PP-5878G / PP-85V / PP6750V / PP3702 or other standard access controller to be most economical access control system of personnel & vehicle
- Available application:
  Factory personnel safety and mobile vehicle safety alert / Handfree lift access control / Parking lot management / Time attendance / logistics management / production control / Air condition or heating supply / Electronic ticket / Olders or patient monitoring... etc.

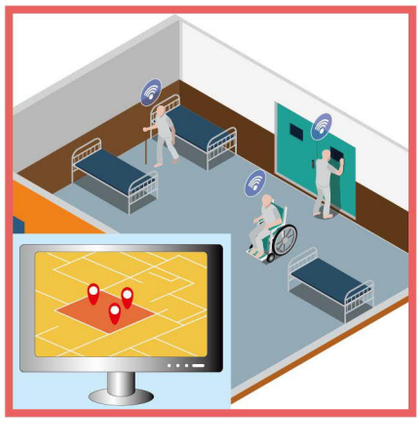


Parking lot management



Factory personnel safety and mobile vehicle safety alert

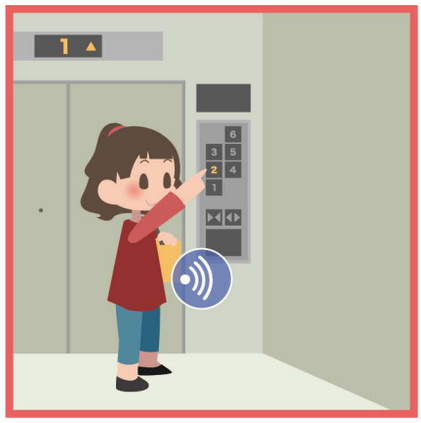
Air condition or heating supply



Olders or patient monitoring

Electronic ticket

Hands-free



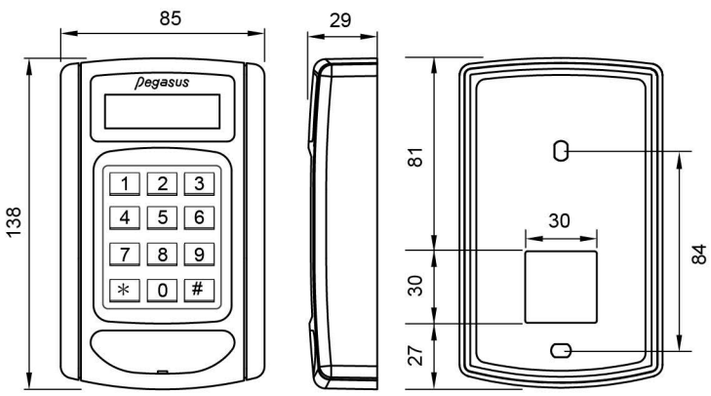
Handfree lift access control

Specifications

PFH-6750V（2.4G Active RFID Access Control / Reader）

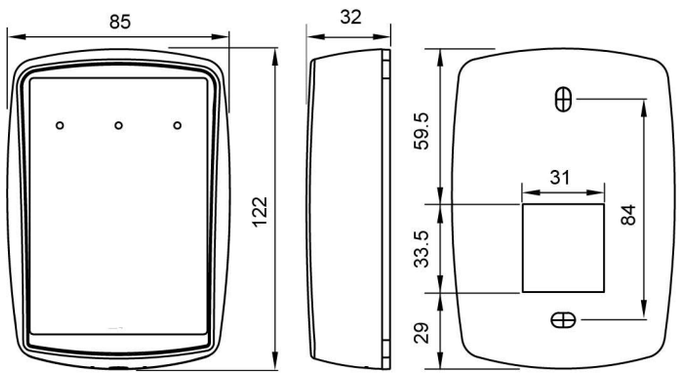
RFID Frequency	2.450~2.458GHz
Identification Angle	Horizontal 360, vertical 360
Reading Range	≥15M
Power input	DC 12V±10%, 98mA(Standby) / 120mA(Operating)
Serial Interface	RS-485 / RS-232(Optional)
External Reader	Wiegand 26/34 bit Reader(Optional)
Weatherproof	IP45
Operating Temperature	-20°C ~ 70°C
Humidity	10%~90%
Material	ABS
Net Weight	340g ± 5%
Dimensions	138(L) x 85(W) x 29(H)mm

Unit: mm



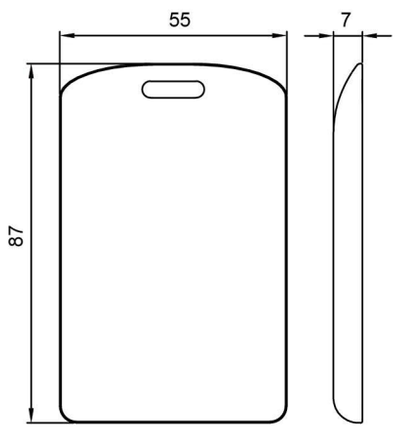
PFH-5210(2.4G Active Long Range Reader)

RFID Frequency	2.450~2.458GHz
Reading Range	≥15M(Depending on the environment)
Power input	DC 12V±10%, 30mA(Standby) / 35mA(Operating)
Format	Wiegand 26/34bits, RS-485, RS-232, UART(TTL), TCP/IP
Operating Temperature	-10°C ~ 75°C
Humidity	10%~90%
Material	ABS
Net Weight	140g ± 5%
Dimensions	122(L) x 85(W) x 32(H)mm



PFH-240(2.4G Active Card)

RFID Frequency	2.450~2.458GHz
RF Power	<1mW
Data Rate	<2Mbps
Reading Range	≥15M
Operating Mode	Reading only, with Anti-Collision
Capable Of Battery	Battery (CR2032)x 4 pieces
Operating Temperature	-20°C~70°C
Humidity	＜95%
Material	PC
Dimensions	87(L) x 55(W) x 7(H)mm



Ordering information

PFH-6750VX/R5	: 2.4G Active RFID Access Control / Reader, Reading Range 15m
PFH-6750VXR5S3	: 2.4G Active RFID Access Control / Reader, Reading Range 3m
PFH-6750VXR5S5	: 2.4G Active RFID Access Control / Reader, Reading Range 5m
PFH-5210W	: 2.4G Reader, Wiegand 26/34bit & UART(TTL)
PFH-5210WR2	: 2.4G Reader, Wiegand 26/34bit & UART(TTL), RS-232
PFH-5210WR5	: 2.4G Reader, Wiegand 26/34bit & UART(TTL), RS-485
PFH-5210WT	: 2.4G Reader, Wiegand 26/34bit & UART(TTL), TCP/IP
PFH-240	: 2.4G Active Card
PST-ADV-E-ELE	: Access Control / Time & Attendance Software

Digital Access Control Keypad

Metal Case

PG-101K

PG-104K

PG-105K

Metal Case

PG-206K

Introduction

- Digital Keypad uses microcomputer processor which makes system steadier. With million combinations of key code, it is safe to open the door by key code and no key needed. This keypad supports door monitor, door release time control and other alarm functions. Beside, It can work with burglarproof or safety systems.

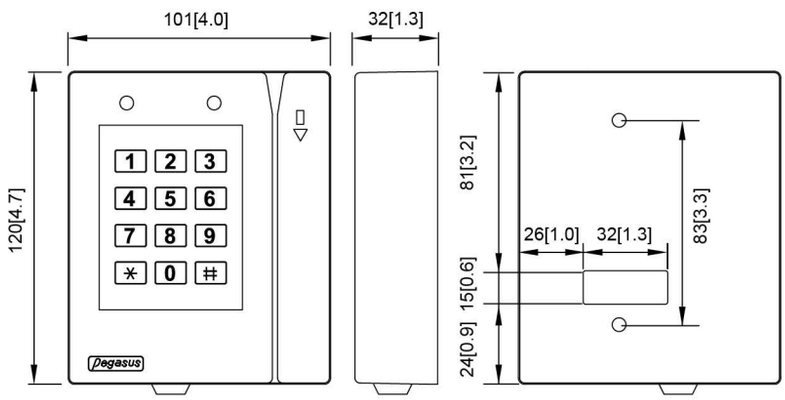
Features

- Registered user and administrator pincode are saved in the memory which prevents these pincodes disappear during a power outage.
- 1~7 combinations of password from 4 to 8 digits.
- Programmable door release time, alarm time from 1 to 99 seconds through keypad.
- Programmable trials from 1 to 9 times through keypad.
- Intelligent functions programmable through keypad and LED's indication.
- With tamper switch and one loop sensor, the alarm signal will output when case is tampered or loop is intruded.

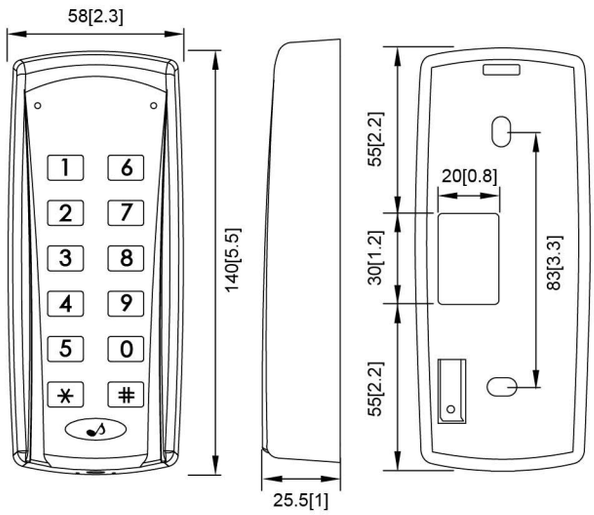
Specifications

Model No.	PG-101K	PG-104K	PG-104KC	PG-105K	PG-105KC	PG-105KD	PG-105KE	PG-206K	PG-206KC
Code	1~7		1~150	1~7	1~150		1~1000	1~7	1~150
Passcode	4~8 digits		5~8 digits	4~8 digits	5~8 digits			4~8	5~8 digits
Support two doors output	NO					YES	NO		
Monitor inputs	Door contact , Exit push button , case tamper								
Monitor outputs	Exit push button, alarm output, tamper switch alarm output					Exit push button, tamper switch alarm output	Exit push button, alarm output, tamper switch alarm output		
Weatherproof	NO	IP54	NO					YES	
Doorbell	NO	YES	NO					NO	
Power Input / Current	DC 12V±10%, 28mA(Standby) 94mA(Work)	DC 12V±10%, 20.2mA(Standby) 54.9mA(Work)	DC 12V±10%, 20.2mA(Standby) 54.9mA(Work)					DC 12V±10%, 32mA(Standby) 49mA(Work)	
Operating temperature	-15°C~55°C	-10°C~75°C	-10°C~75°C					-10°C~70°C	
Material	Zinc alloy	ABS	ABS					Zinc alloy	
Dimensions(L×W×H)mm	120x101x32	140x58x25.5	137 x 85 x 29					150 x 44 x 22	
Weight	930g± 5%	115g± 5%	250g ± 5%					250g ± 5%	

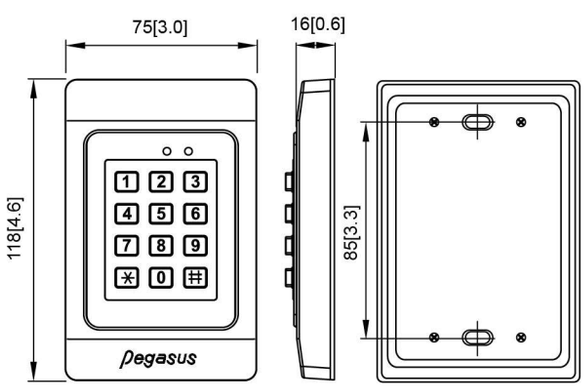
Dimensions mm[inch]



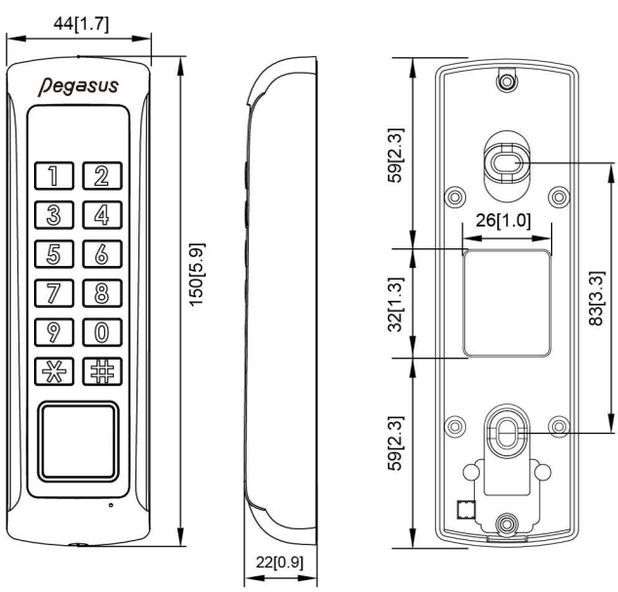
PG-101K



PG-104K



PG-105K



PG-206K

Mag. Card Reader

PMR-410RT123

- Interface: RS232
- Tracks 1 & 2 & 3
- 300,000 passes
  1000,000 passes (optional)

Mag. Card Reader

PMR-410UT123/I

- Interface: USB
- Tracks 1 & 2 & 3
- 300,000 passes
  1000,000 passes (optional)

Mag. Card Reader

PMR-410AT123

- Interface: PS2
- Tracks 1 & 2 & 3
- 300,000 passes
  1000,000 passes (optional)

Mag. Card Reader

PMR-410TS2

- Interface: TTL
- Track 2
- 300,000 passes

Portable Magnetic Stripe Data Collector

PDC-410-RT/K

- Interface: RS232
- Tracks 1 & 2 & 3
- Hold: 2000 records
- 300,000 passes

Simple Flush Mounted ATM Access Controller

PG-816ATM

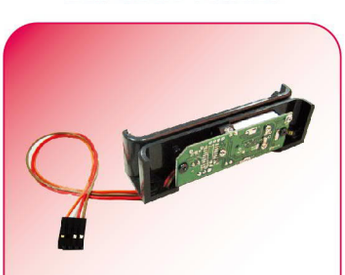
- 300 definable variable bank codes 5~7 digits
- Track 2 and 3 (PG-816ATM)
  Track 2(PG-816ATMT2)
  Track 1 and 2 (PG-816ATMT12)

Magnetic Stripe Card Time Attendance Recorder

PG-2752C

- 9,999 personal map
- Programmable 4 digits PIN for each person
- ABA track II/RS-232C/RS-422/ RS-485

Bar code reader



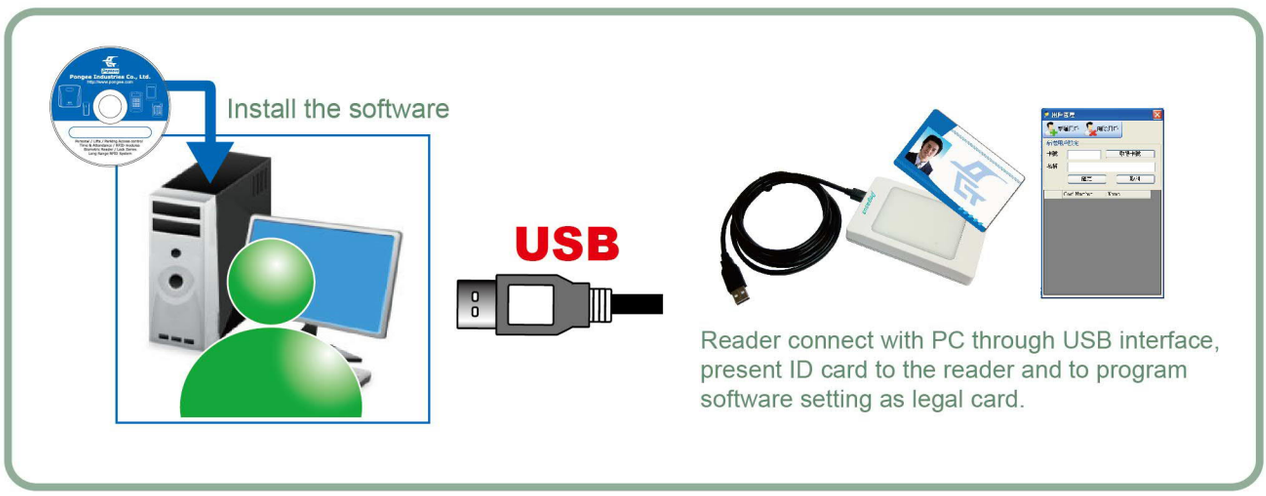
PBR-409

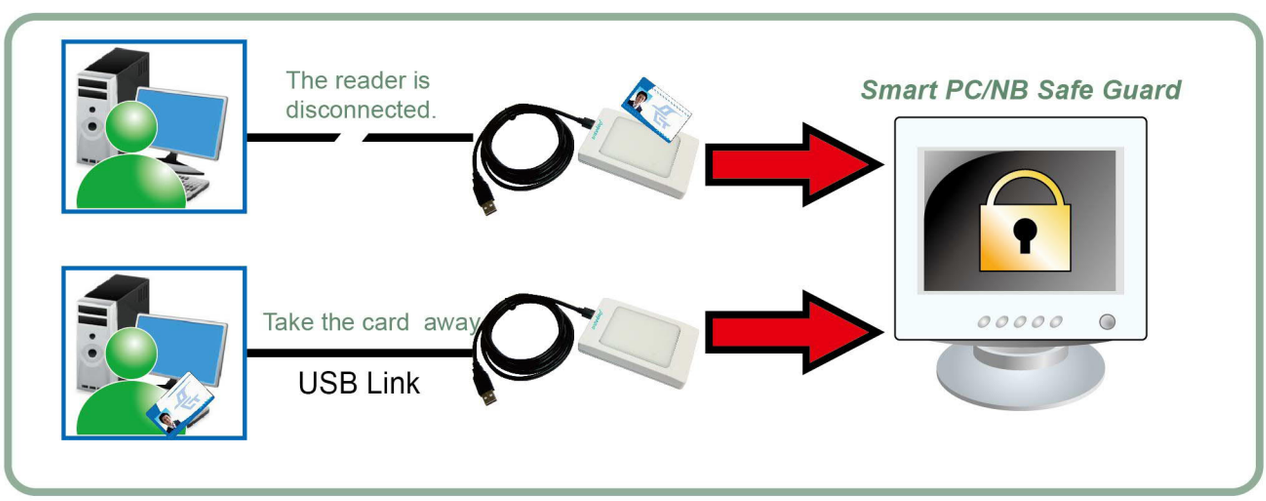
- Interface: TTL
- PBR-409IR(Infrared)

Barcode Card Access Controller Time Attendance Recorder

PB-2752C

- Interface: RS-232,RS-422, RS-485
- 9,999 personal map
- 6,000 events
- Standard barcode card of code39





Features

- Smart Safeguard will lock screen automatically while personal ID card be taken away.
- Management password could be set with 1st priority user.
- Multi-user card numbers setting allowed.
- Illegal card can't access PC/NB with Desktop Smart Safeguard.(Security key)
- Languages support English and Traditional Chinese.

Software characteristic

- Protecting your computer privacy illegal operation.
- Automatic locking once the reader is disconnected.

Application

Office / Library / Supermarket/ School / Internet café

Support OS

- Windows XP (32bit and 64bit)
- Windows 7 /10 (32bit and 64bit)

Specification

- Dimension : 118 (L) x 75 (w) x 17 (H) mm
- Net weight : 140g±5%
- Cards applied : Mifare 14443A, with security key EM4001, 4102
- Mounting style : Desktop
- Power supply : by USB
- Transmit frequency : 13.56MHz / 125KHz
- Interface : USB 2.0
- Operating temperature :-10°C ~ 60°C
- Storage temperature :-10°C ~ 85°C
- Humidity : 20% ~ 90%RH, non condensing

Wiegand/RS-485 Biodirectional Converter

PCT-WR5

- Dimensions:77 x 33 x 17mm
- Transmission speed:9,600bps
- Signals:Wiegand / RS-485)
- Power:DC 7~24V

Wiegand/RS-232 Biodirectional Converter

PCT-WR2

- Dimensions:77 x 33 x 17mm
- Transmission speed:9,600bps
- Signals:Wiegand / RS-232)
- Power:DC 7~24V

USB/RS-232 Converter

PCT-UR2

- Dimensions:53 x 33 x 17mm
- Transmission speed:300~115,200bps
- Operating distance:5m(RS-232)/1.8m(USB)
- Signals:RS-232→TXD、RXD、GND
  USB→Data+、Data-、GND、VCC
- Power by PC USB port.

USB/RS-485 Converter

PCT-UR5

- Dimensions:53 x 33 x 17mm
- Transmission speed:300~115,200bps
- Operating distance:70m(RS-485)/1.8m(USB)
- Signals:RS-485→Data A、Data B
  USB→Data+、Data-、GND、VCC
- Power by PC USB port.

UART/Ethernet Converter [UART(TTL), RS-232]

PM-S2E-H01TR2

- Dimensions:58 x 25mm
- Transmission speed:300bps ~ 921,600bps
- Protocol:TCP, IP, ARP, ICMP, IGMP,UDP, DCHP
- Signals:TX(TTL), RX(TTL), RS-232
- Network interface:10 / 100Mbps
- Power:DC 3.3V / DC 5V

UART/Ethernet Converter [UART(TTL), RS-485]

PM-S2E-H01TR5

- Dimensions:58 x 25mm
- Transmission speed:300bps ~ 921,600bps
- Protocol:TCP, IP, ARP, ICMP, IGMP,UDP, DCHP
- Signals:TX(TTL), RX(TTL), RS-485
- Network interface:10 / 100Mbps
- Power:DC 3.3V / DC 5V

UART/Ethernet Converter [UART(TTL), RS-232, RS-485]

PM-S2E-H01TR25

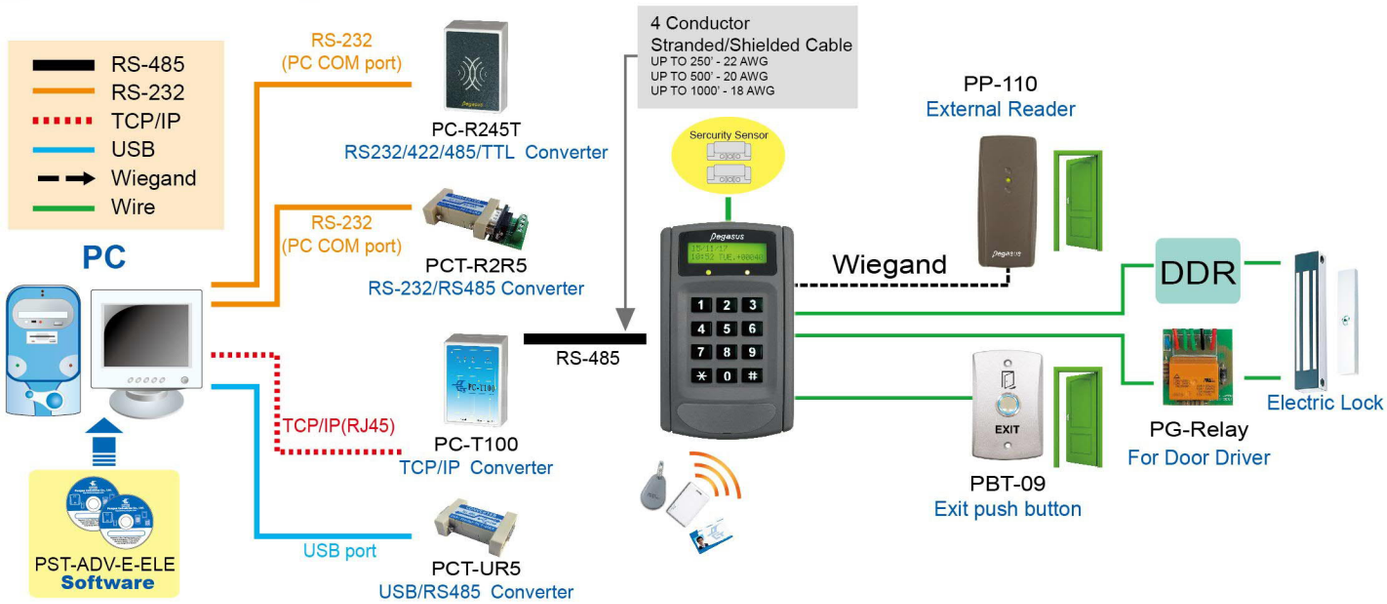
- Dimensions:58 x 25mm
- Transmission speed:300bps ~ 921,600bps
- Protocol:TCP, IP, ARP, ICMP, IGMP,UDP, DCHP
- Signals:TX(TTL), RX(TTL), RS-232, RS-485
- Network interface:10 / 100Mbps
- Power:DC 3.3V / DC 5V

TCP/IP Ethernet Converter

PC-T100H

- Dimensions:115 x 78 x 31mm
- Transmission speed:300 bps~921,600 bps
- Protocol:TCP,UDP,IP,ARP,ICMP,IGMP, Ethernet MAC
- Signals:TxD,RxD,R TS ,C TS ,DTR,DSR,GND/ DataA, DataB
- Network interface:10/100 Mbps Base-T Ethernet (auto-detecting)
- Power:12V DC,150mA

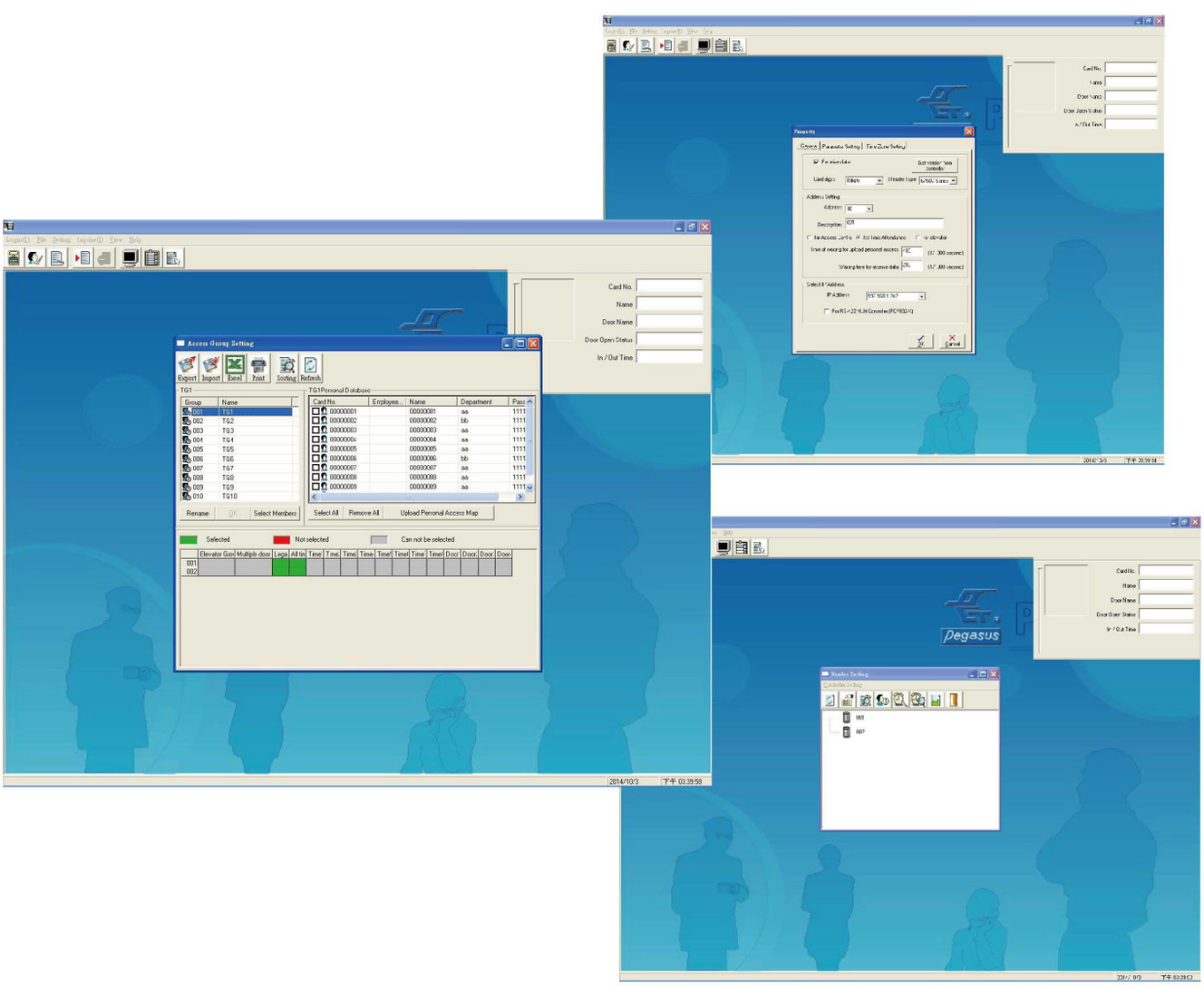
System Configuration



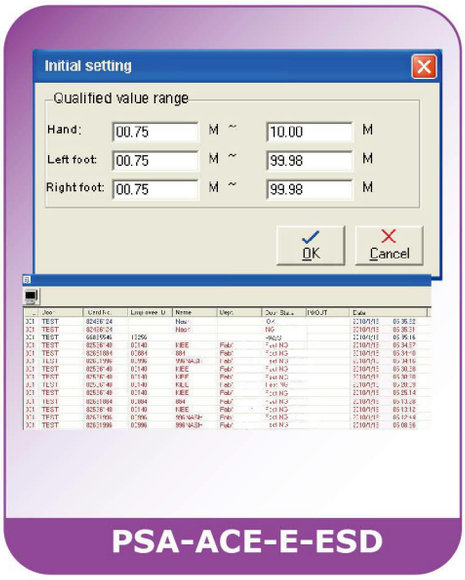
Features

- Drop-down menu, easy for operation.
- Can control multi readers on line at the same time, and show user's photo、name、time zone data、in/out records.
- Database is Microsoft Access format; it can transfer data to TXT form.
- Multitasking environment, can operate other software while running this software, and can monitor host monitoring of files editing and processing.
- Can choose COM PORT(COM1~COM4) or TCP/IP as transmission.
- Offer 15 kinds of common reader setting, administrators can easily to manage readers through PC.
- Timing can be set as automatically upload from computer time to correct card reader, so always keep correct time for card reader.
- Responsive reader provides the reader parameter query function.
- Provide export/ import database functionality, when the software version updates, no need to re-establish basic information.
- System program with database editing, storage and loaded reader functions; Can be used have records while database editing.
- Provide database management functions, delete、export / import, database compression function.
- System program with all of door zone, date, hour / minute, multi conditions query and abnormal query, print out the latest. information and provides export.
- Text files and Excel files functions.
- Can import/ export staff access records, staff data, staff personnel access permission data, and supports Excel file format.
- Can adjust field of access records as demand when printed.
- System program can automatic detect status of the controllers and card readers to know if it on line.
- Reader can be selected operation modes: (1) Card + PIN (2) Card only. (3) Card or Pin.
- Can accommodate maximum of 30,000 different identification number (ID) and password (PIN).
- Can be set to different time zones, to allow only specific users to access.
- Support multiple operation modes (EX: Card or Card+ Password) and access data receiving schedule (for specific model only).
- Remote door open by computer.
- System supports real-time reporting, the latest 30 numbers in-out record will display on computer screen.
- Support access report export to text file.
- Support text format adjustment to be used on personnel or other system.
- Provide manual import for original text file.
- Support limited period setting for legal card (for specific model).
- Support Door access controller and Lift access controller.
- Support lift door open at specific floor.
- Support multiple models.

- Support Time group settings, no need to set up personal access authority one by one.
- Need user password to enter main screen, administrator can modify user password and user operation authority.
- Provide operation user manual.
- Need user password to enter main screen, administrator can modify user operation authority. Support 27 function. settings to meet different requirements.
- Support lift group settings, door access controller and lift access controller are supported.
- Support specific floor relay activation.
- Support group authority settings, no need to set up personal access authority one by one.
- Support automatically receiving data without log-in.
- Support automatic data receiving schedule.
- Support background image change.
- Support 2750/3750/3760/6750/6750V/PP85/1074/5707T/370/377
- PST-ADV-E-ELE supports above functions.
- PST-ADV-E-ELE supports database editing with multiple languages (but some languages are not supported due to database or software limited).
- Above functions are supported with specific models, please check models in advance.



ESD access control system

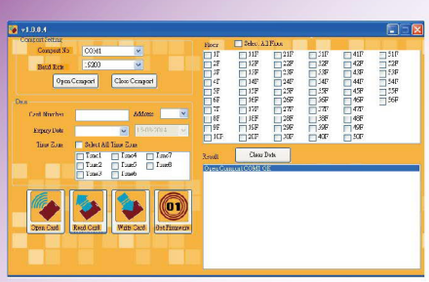


PSA-ACE-E-ESD

SMS Access control software

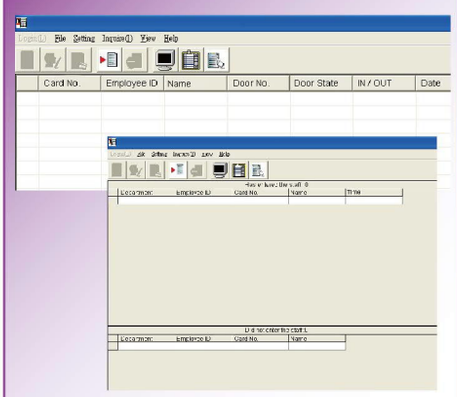
PSA-ADV-E-MYSQL

Lift Mifare read/write card software



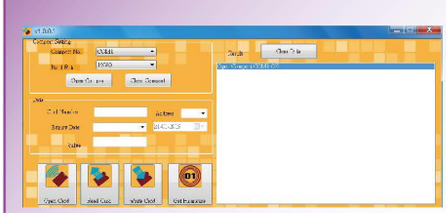
PSM-M2Y4-E-FLOOR-WU

Access control system software for construction site



PST-ADV-E-WORKIN

Prepaid value system software



PSA-ADV-E-MRV

Dimensions: 85.6(L) x 54(W) x 0.76(T) mm
Material: PVC / PETG

- Dual Frequency Card(125KHz /13.56MHz)
  PG-PROXC-E/M-B1
  Operating frequency: 125KHz / 13.56MHz
- Mifare Proximity Card
  PG-PROXC-M1-B3
  Operating frequency: 13.56MHz
- EM Proximity Card(Pegasus Format)
  PG-PROXC-P06-B1
  Operating frequency: 125KHz
  6 digits.
- EM Proximity Card(EM Standard Format)
  PG-PROXC-N10-B3
  Operating frequency:125KHz
  10 digits.

Dimensions: 85(L) x 54(W) x 1.8(T) mm
Material: PVC

- EM Proximity Card(Pegasus Format)
  PG-PROXS-P06-B1
  Operating frequency:125KHz
  6 digits.
- EM Proximity Card(EM Standard Format)
  PG-PROXS-N10-B1
  Operating frequency: 125KHz
  10 digits.

Dimensions: 85(L) x 54(W) x 8(T) mm
Material: ABS

- RF Hand Free Card
  (433.9 MHz, reading range 6m)
  PFH-620
  Operating frequency: 433.9MHz

- RF Hand Free Card
  (433.9 MHz, reading range 6m)
  PFH-650
  Operating frequency: 433.9MHz
  Dimensions: 87(L) x 55(W) x 7(T) mm
  Material: PC

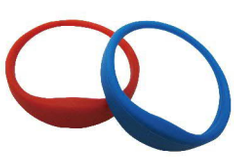
- EM Proximity Tag (EM Standard Format)
  PG-PROXK-N10-B1
  Operating frequency: 125KHz
  10 digits.
  Dimensions: 45.3(L) x 30.4(W) x 8.7(T) mm
  Material: ABS

- Mifare Proximity Tag
  PG-PROXK-M1-B1
  Operating frequency: 13.56MHz
  Dimensions: 39(L) x 35(W) x 7(T) mm
  Material: ABS

- Q Type Proximity Tag
  PG-PROXK-Q10-B1
  Operating frequency: Q Type
  Dimensions:39(L) x 35(W) x 7(T) mm
  Material: ABS

- Mifare Silicone Wristband
  PK-W5588B-C/M-B1
  Operating frequency: 13.56MHz
  Dimensions: Diameter 74mm
  Diameter 65mm(Optional)
  Material: Silicone

- EM Silicone Wristband
  PK-WR5588-EM
  Operating frequency: 125KHz
  Dimensions: Diameter 68mm
  Material: Silicone



- Mifare Silicone Wristband
  PK-WR5588-M
  Operating frequency: 13.56MHz
  Dimensions: Diameter 68mm
  Material: Silicone

Dimensions: 65(L) x 36(W) x13(H)mm
Material: ABS
Battery (12V 27A)x 1 piece
With a power-saving switch

- Key Transmitter (Signal key)
  PTX-201
  (Transmit) Frequency: 433.9MHz

- Key Transmitter (Signal key)
  PTM-201
  (Transmit) Frequency: 125KHz & 433.9MHz
  Embedded RFID chip

- Key Transmitter (Four keys)
  PTX-204
  (Transmit) Frequency: 433.9MHz

- Key Transmitter (Four keys)
  PTM-204
  (Transmit) Frequency:125KHz & 433.9MHz
  Embedded RFID chip

- Key Transmitter With Antenna(Four keys)
  PTX-404A
  (Transmit) Frequency: 433.9MHz
  Dimensions: 60(L) x 30(W) x12(H)mm
  Material: ABS
  Battery (12V 23A)x 1 piece

- Metal Case Key Transmitter(Two keys)
  PTX-502
  (Transmit) Frequency: 433.9MHz
  Dimensions: 55(L) x 29(W) x13(H)mm
  Material: Metal
  Battery (12V 27A)x 1 piece

- Metal Case Key Transmitter(Four keys)
  PTX-504
  (Transmit) Frequency: 433.9MHz
  Dimensions: 58(L) x 31(W) x14(H)mm
  Material: Metal
  Battery (12V 27A)x 1 piece

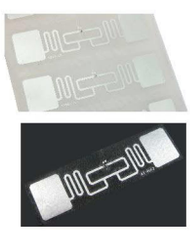
- UHF Card
  PG-PROXC-UHF-B1
  Operating frequency: 860-960MHz
  Dimensions: 85 x 54 x 1mm
  Tag protocol: EPC C1 Gen2(ISO18000-6C)
  Operating range: 0-15m
  (Depends on different readers)
  Erase-Write: 100,000 times

- UHF Adhesive Label(Anti-dismantle, White)
  PG-PROXL-UHF-6C-A-B1
  Operating frequency: 860-960MHz
  Dimensions: 110 x 45mm
  Tag protocol: EPC C1 Gen2(ISO18000-6C)
  Operating range: 0-15m
  (Depends on different readers)
  Erase-Write: 100,000 times

- UHF Adhesive Label(Transparent)
  PG-PROXL-6C-B2
  Operating frequency: 860-960MHz
  Dimensions: 106 x 6.5mm
  Tag protocol: EPC C1 Gen2(ISO18000-6C)
  Operating range: 0-12m
  (Depends on different readers)
  Erase-Write: 100,000 times

- UHF Adhesive Label (Silver)
  PG-PROXL-6C-1-W1
  Operating frequency: 860-960MHz
  Dimensions: 96 x 22mm
  Tag protocol: EPC C1 Gen2(ISO18000-6C)
  Operating range: 0-15m
  (Depends on different readers)
  Erase-Write: 100,000 times

- UHF Adhesive Label(Transparent)
  PG-PROXL-6C-UHF-B1
  Operating Frequency: 860-960MHz
  Dimensions: 97 x 15mm
  Tag Protocol: EPC C1 Gen2(ISO18000-6C)
  Operating range: 0-15m
  (Depends on different readers)
  Erase-Write: 100,000 times



- UHF Adhesive Label(Transparent)
  PG-PROXL-UHF-A
  Operating Frequency: 860-960MHz
  Dimensions: 73 x 21mm
  Tag Protocol: EPC C1 Gen2(ISO18000-6C)
  Operating range: 9-12m
  (Depends on different readers)
  Erase-Write: 100,000 times

Shielding housing (For 87/5878/6750 series)

R-10-USE58786750-1

- Dimensions: 170x105.5x43mm
- Material: Acrylic
- To avoid the wind and rain for extending use life.
- Waterproof protection.
- To prevent press the button by the random.
- To avoid dust contaminate the machine.

Shielding housing(For 3760 series)

M-10-3750

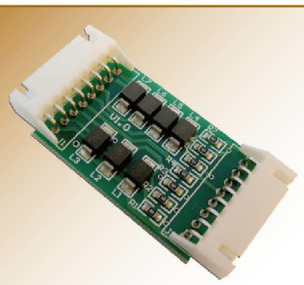
- Dimensions: 216x116x53mm
- Material: Acrylic
- To avoid the wind and rain for extending use life.
- Waterproof protection.
- To prevent press the button by the random.
- To avoid dust contaminate the machine.

Shielding housing (For 878 series)

PG-BT50-5

- Dimensions: 144x133x44mm
- Material: Acrylic
- To avoid the wind and rain for extending use life.
- Waterproof protection.
- To prevent press the button by the random.
- To avoid dust contaminate the machine.

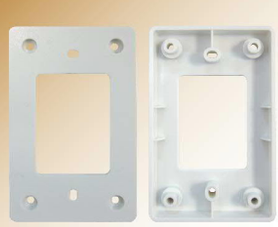
Anti-lightening Protection Module



PXTH-01

- Dimensions :50(L) x 22(W) x 6(H) mm
- Anti-lightening protection module
- Support Pegasus's Access controller with communication port only

Insulator for Reader



M-10-3750

- Dimension: 119.6(L) x 76.6(W) x 15(H)mm
- Material: Acrylic
- Feature: Avoid intervention

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