Proximity Reader / Programmer

PUA-310V1
(Surface Mount)

PUA-310V
(Desktop)

PP-311
(Surface Mount)
With keypad

Features

- Easily interfaced with Pongee or other standard access controller for management of access control, time attendance & lift access control systems.
- LED indicators show power and operation status.
- Built-in buzzer for sound notification.
- Supplies buzzer & LED responding signal.
- Provides tamper switch.
- Supported Bluetooth function.(Optional)
- Dual, triple, quadruple decoding reader. (EM、Mifare ISO15693、ISO14443A/B)reader. (by optional)
- With multi card formats output thru DIP switch selection.(ASCII ID, Decimal and Hexadecimal)(by optional)
- With CPU watch-dog function to prevent malfunction.
- Provide OEM/ODM projects development.
- Ability to read multiple formats.
- For higher security, our **M3 series** is applied with anti-duplication HF card.
- Suggested to pair with

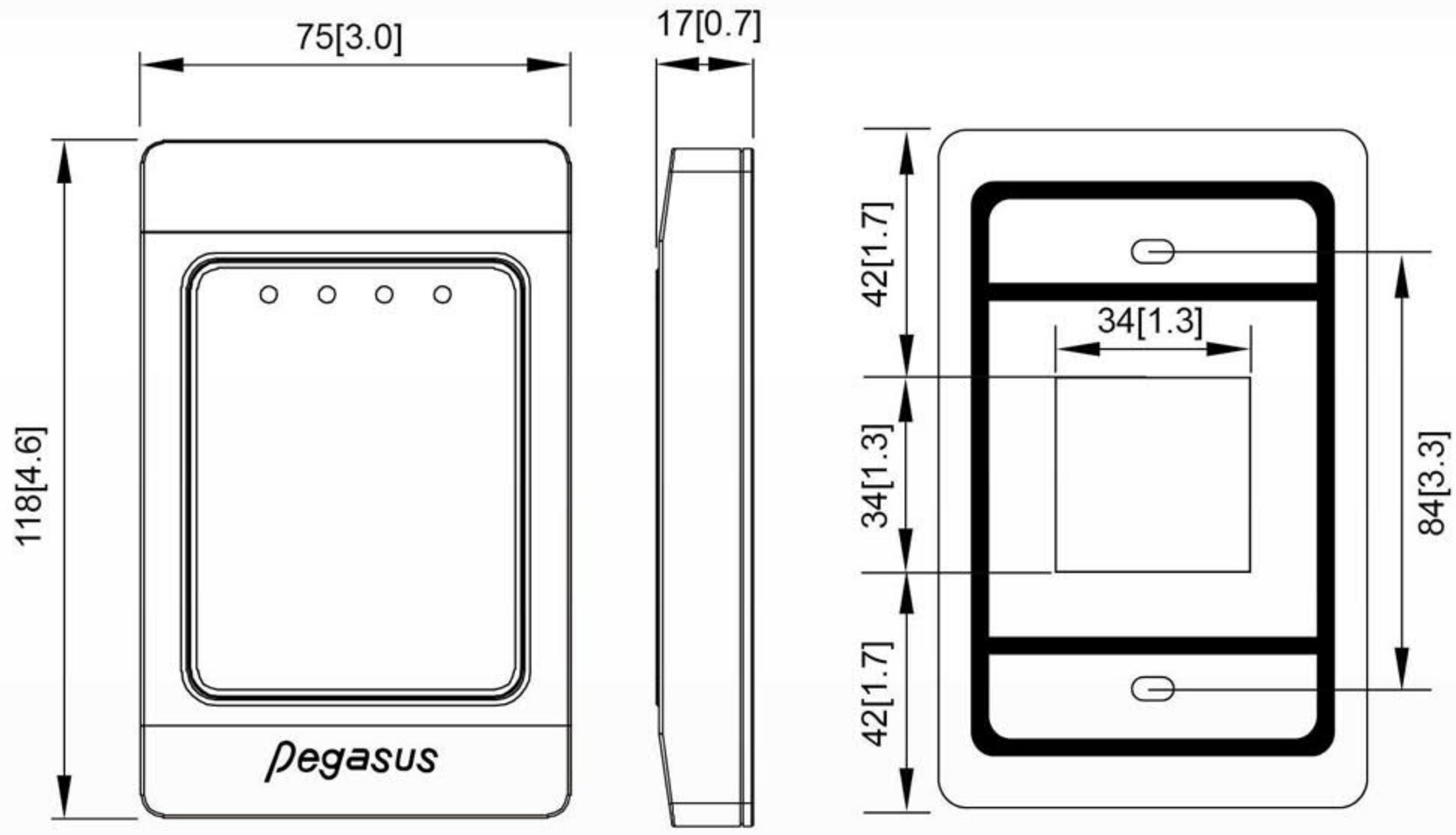
  Standalone system: PP-87 controller

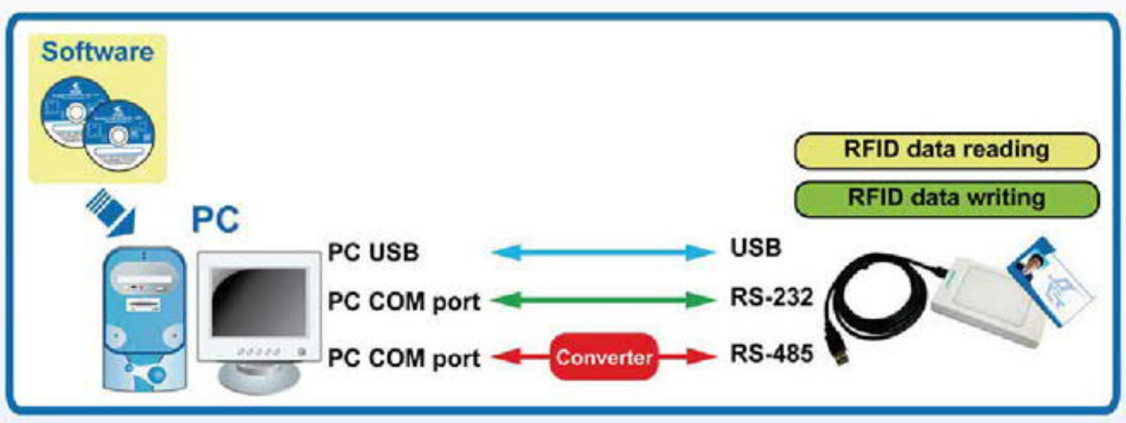
  On-line system: PP-6750V, PP-85, PP-35, PP-36, PP-3790 or PP-3702T controller

Specification

Model No.		PUA-310V1	PUA-310V	PP-311
RFID frequency		125KHz ASK/125KHz FSK 13.56MHz/Dual frequency/M3		125KHz ASK/125KHz FSK 13.56MHz/M3
Applicable cards		EM 4001,EM 4102 or compatible, TEMIC 5557 Mifare S50, S70, Mifare Ultralight, Mifare DESFire, Felica, NFC Tag		
Waterproof		Yes	---	Yes
Reading range	EM 125KHz ASK	6~19cm	5~6cm	6~18cm
	HC 125KHz FSK	6~10cm	5~6cm	6~10cm
	Mifare 13.56MHz	5~7cm	5~6cm	5~6cm
	M3	7~10cm	7~10cm	5~6cm
Output format (Interface)		RS-232/RS-485/ Wiegand 26/34bits <42/44/64 bits(Optional)> / ABA Track2) / USB	USB	RS-232/RS-485
Transmission rate		9,600 bps N, 8, 1 (19,200 bps N, 8, 1)(Optional)	---	9,600 bps N, 8, 1
Operating voltage		5V / 12V / 24V	By USB	12V
Indications	LED	LED(Power / Status)		
	Buzzer	Built-in buzzer sound		
Tamper switch		Yes	NO	Yes
Watchdog		Yes	Yes	Yes
Responding signal (LED/Buzzer)		Yes	NO	NO
Operating temperature		-10°C~75°C		
Storage temperature		-20°C~85°C		
Material / Color		PC / Black, White		PC / White
Operating System Support		Windows XP SP2 / Vista / 7 / 8 / 8.1 / 10, Mac OS 8/9, OS X, Linux/Android, Windows 11(Optional)		

Dimensions mm[inch]





Example Applications

PUA-310V1
Surface Mount

ABA — **RS-232** — **RS-485** — **USB** — **Wiegand**

HMI
(human–machine interaction)

PUA-310V1
Surface Mount

ABA — **RS-232** — **RS-485** — **Wiegand**

Charging station

PUA-310V
Desktop

USB(U1)
Keyboard emulation
(without any PC driver)

USB(U2)
Reader/Writer
(with software)

POS System
Membership schemes
Copier accounting

Optional Accessories

RS-232 Cable (For PUA-310 Series)

- **R-12-W6P+DB9+DCJK/2M**
  (Line length 200CM)

RS-232 Cable (For PUA-310V1 Series)

- **R-12-310R2-1800-1**
  (Line length180CM)

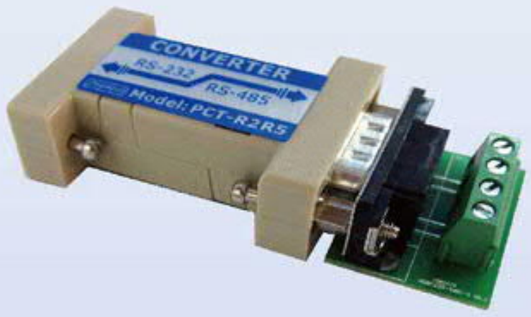
RS-485 Cable (For PUA-310V1 Series)

- **R-12-310R5-1800-4**
  (Line length180CM)

- **PG-ADAPTER/100-240-3** :100-240V Adapter
  (Ansi Standard)

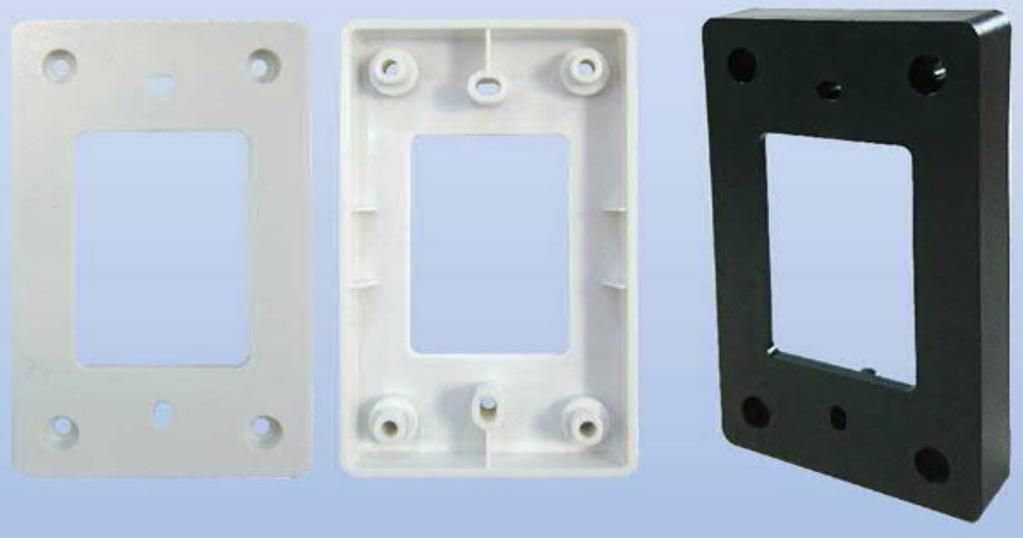
- **PG-ADAPTER-E788** :100-240V Adapter
  (British Standard)

- **PCT-R2R5**: RS-232 to RS-485 Interface Converter



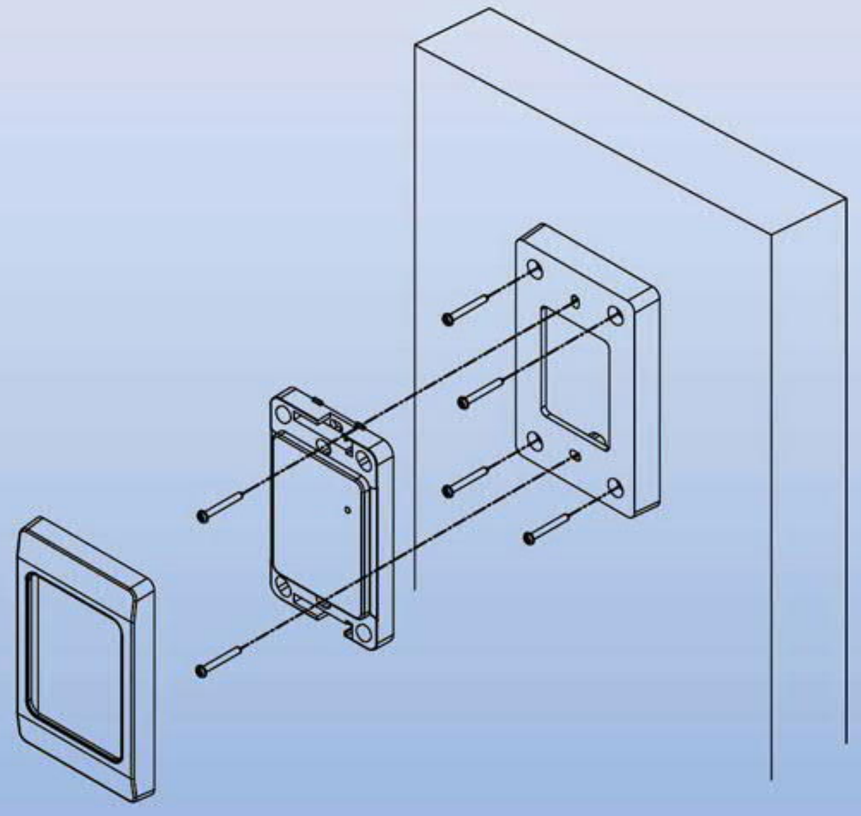
- **PCT-UR5**: USB to RS-485 Interface Converter

- Insulator for PUA-310V1



R-21-310-3
(White)

R-21-310-3B
(Black)



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 E065 ↓ ↓ 31888 57445	90 E065 ↓ ↓ 144 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 907C ↓ ↓ 26080 36988	E0 907C ↓ ↓ 224 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>

RoHS CE

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