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

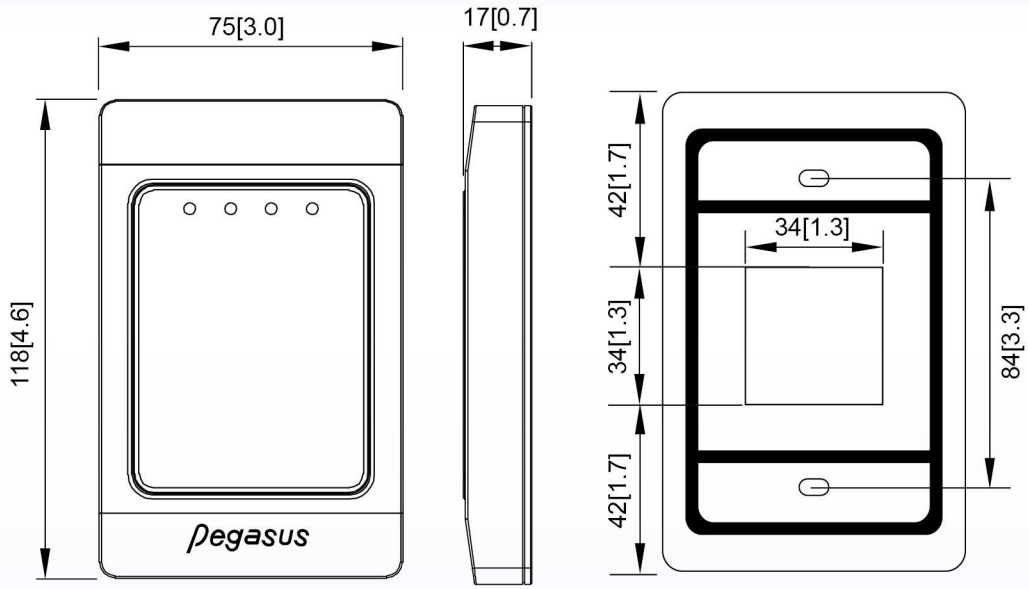
  Standalone system: PP-87 controller

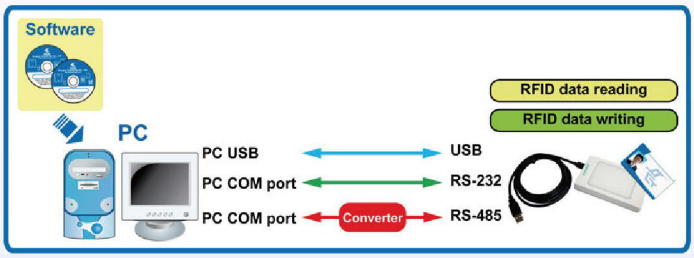
  On-line system: PP-6750V, PP-85, PP-35, PP-36, PP-3790 or PP-3702T controller

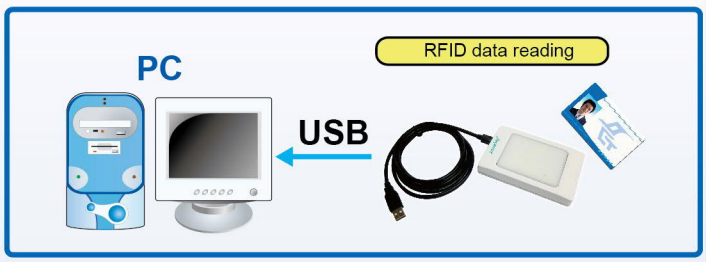
Specification

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

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)

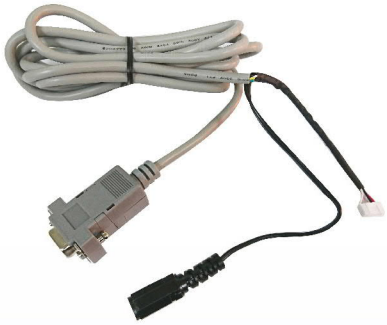
USB(U2)
Reader/Writer
(with software)

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)

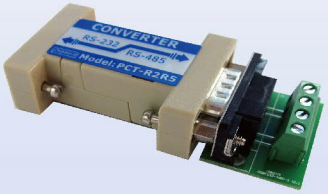
RS-485 Cable (For PUA-310V1 Series)

- **R-12-310R5-1800-1**
  (Line length180CM)

- **PG-ADAPTER/100-240-2** :100-240V Adapter (Ansi Standard)

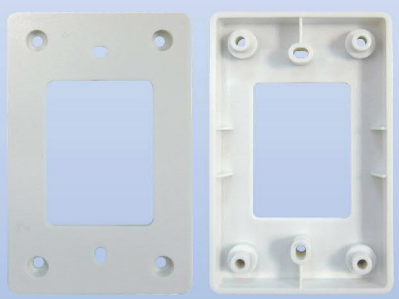
- **PG-ADAPTER-E788** :100-240V Adapter (British Standard)

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



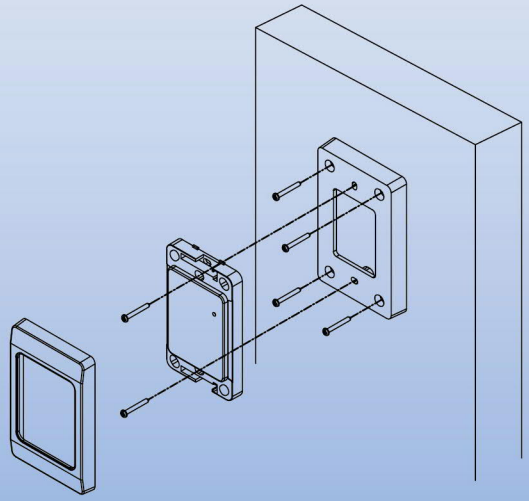
- **PCT-UR5**: USB to RS-485 Interface Converter

- Insulator for PUA-310V1



R-21-310-3
(White)

R-21-310-3B
(Black)



Ordering information

PUA -310 V – 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: 3bytes	Read card number: 4bytes	Read card number: 5bytes	Output card number format: Decimal	Output card number format: Hexadecimal	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		•		•		•			•		
				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 (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

※**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>

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