

Proximity Reader / Programmer



PUA-310V1
(Surface Mount)

PUA-310V
(Desktop)

PP-311
(Surface Mount)
With keypad

Features

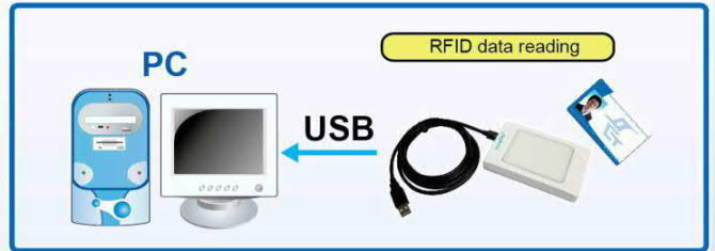
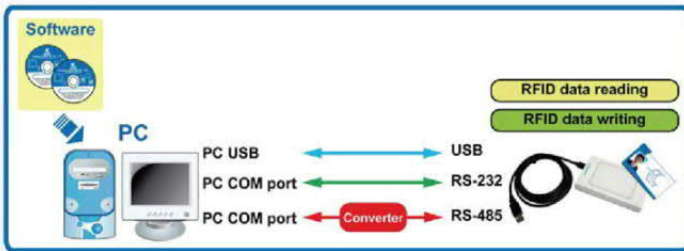
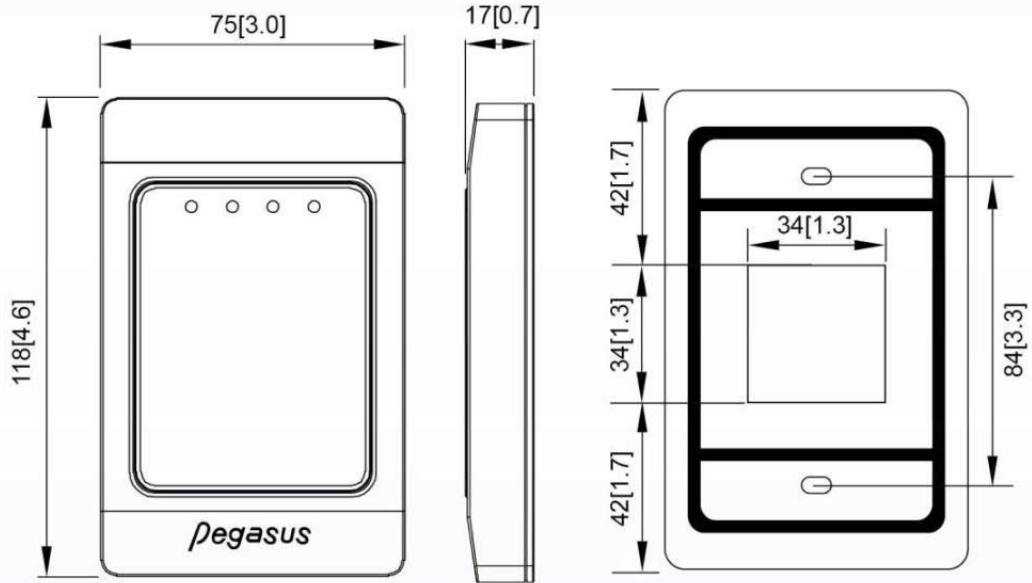
- Easily interfaced with Pongee or other standard access controller for management of access control, time attendance & lift access control systems.
- LED indicators show power and operation status.
- Built-in buzzer for sound notification.
- Supplies buzzer & LED responding signal.
- Provides tamper switch.
- Supported **Bluetooth** function.(Optional)
- **Dual, triple, quadruple decoding** reader. (EM、H.I.D.、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 / 13.56MHz / Dual frequency		125KHz / 13.56MHz	
Applicable cards	EM 4001, EM 4102 or compatible, TEMIC 5557, H.I.D. or compatible Mifare S50, S70, Mifare Ultralight, Mifare DESFire, Felica, NFC Tag			
Waterproof	Yes	---	Yes	
Reading range	EM 125KHz ASK	6~19cm	5~6cm	6~18cm
	H.I.D. 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	DC 5V / 12V / 24V	By USB	DC 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

Unit : 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 length 180CM)



RS-485 Cable (For PUA-310V1 Series)
R-12-310R5-1800-4
 (Line length 180CM)



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



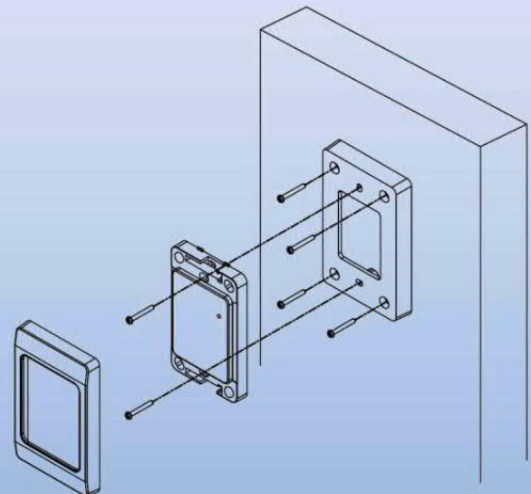
Insulator for PUA-310V1



R-21-310-3N
 (White)

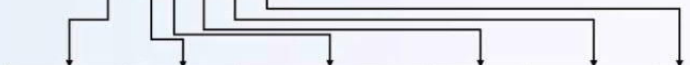




R-21-310-3B
 (Black)



Ordering information

PUA-310V - 0 N R2 D 01



Model No.	Epoxy	Applicable cards	Output Interface	Numeral system	Code	Read card number					Output card number format			CheckSum							
						In reverse <small>Note 1</small>	In positive <small>Note 1</small>	2bytes	3bytes	4bytes	5bytes	8 digits	10 digits		14 digits						
 Desktop V1  Surface Mount	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																
					06																
			H:Hexadecimal	01																	
				02																	
				01																	
				02																	
				01																	
				02																	
		A:ABA D:Decimal	01																		
			02																		
			03																		
			01																		
			02																		
			03																		
		W:Wiegand 26: 26bit, 34: 34bit <42/44/64 bits(Optional)>						01													
		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																					
H:Hexadecimal	07																				
	08																				
	09																				
	10																				
	01																				
	02																				
A:ABA D:Decimal	03																				
	04																				
	05																				
	06																				
	07																				
	08																				
W:Wiegand 26: 26bit, 34: 34bit, 58:58bit <42/44/64 bits(Optional)>						01															
H: 125KHz FSK H.I.D.	R2:RS-232 R5:RS-485 U1:USB	D:Decimal	01																		
			02																		
		H:Hexadecimal	01																		
			02																		
	A:ABA D:Decimal	D:Decimal	01																		
			02																		
		H:Hexadecimal	01																		
			02																		
W:Wiegand 26&34bit <32 · 35 · 36 · 37 · 40 · 42 · 48bit (optional)>						01															

Note 1

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

Card No. in positive	Hexadecimal	→	Decimal (10 digits)	Decimal (10 digits)	Decimal (8 digits)
7C 90 E0 65	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	Hexadecimal	→	Decimal (10 digits)	Decimal (10 digits)	Decimal (8 digits)
65 E0 90 7C	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>

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.

PONGEE INDUSTRIES CO., LTD.

5F., No.738, Chung-Cheng Rd., Chung-Ho District, New Taipei City 235603, Taiwan
 Tel : 886-2-82280198 Fax : 886-2-82280191
 E-mail : pongee@pongee.com.tw Website:http://www.pongee.com
 We reserve the right to change the specification without prior notice or obligation!

