2.4G Active Long Range RFID Reading System
ON-P6750V series

For more details, please refer the CD firstly.

● **Product Description**

- ON-P6750V series 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.
- ON-P5210 series is Wiegand reader that can be interfaced with ON-P5878G / ON-P85V / ON-P6750V / ON-P3702

  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.

● **Features**

- Compare project number.
- 8-digit card number (which can be assigned).
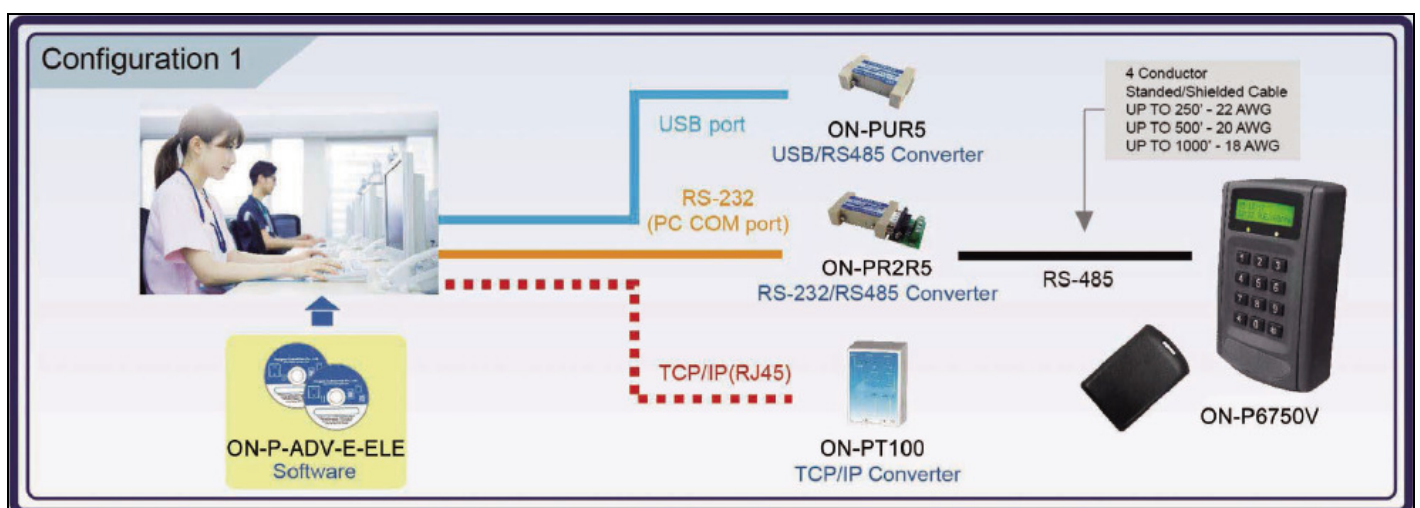
● **Function Code**

F4= 22tt	Alarm time. tt= 00 to 99 in unit of 1 second.(Default value: 5 Sec.)
F4= 27nn	nn(Max. 80)，Number of anti-collision cards
F4= 8301	Check repeat reading.
F4= 9820 /9821	Disable 2.4G function. / Enable 2.4G function.

● **Specifications**

Model No.	**ON-P6750V** (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/Dustproof	IP45
Operating Temperature	-20℃ ～ 70℃
Humidity	-20℃ ～ 70℃
Material	ABS
Net Weight	340g ± 5%
Dimensions(LxWxH)mm	137 x 85 x 29

Model No.	**ON-P5210** (2.4G Active Long Range Reader)	
RFID Frequency	2.450~2.458GHz	
Reading Range	>10M	
Power input	DC 12V±10%, 23mA(Standby) / 29mA(Operating)	
Format	Wiegnad 26/34 bit, RS-485, RS-232 (can be interfaced with Pegasus or other standard access controller)	
Operating Temperature	-10℃ ~ 75℃	
Humidity	10%~90%	
Material	ABS	
Net Weight	140g ± 5%	
Dimensions(LxWxH)mm	122 x 85 x 32	

Model No.	**ON-P240** (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℃~70℃	
Humidity	＜95%	
Material	PC	
Dimensions(LxWxH)mm	87 x 55 x 7	

Configuration 2

- **Wiring Connectors and PIN assignment**

ON-P6750V:
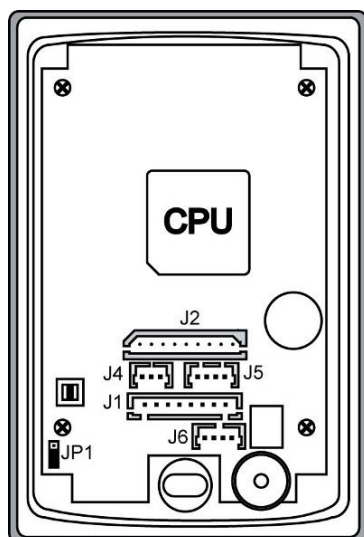
JP1 - Lift relay box driver or print output
interface section

J2-9 pins in RS-232 interface(Optional)

J2-9 pins in open-collector interface

J1-8 pins connector for Communication and
alarm output
J2-9 pins connector for Access port
J4-3 pins connector for tamper switch output
J5-Power out selection for external reader
J6-Power out selection for external reader
(Optional)

123456789

J2

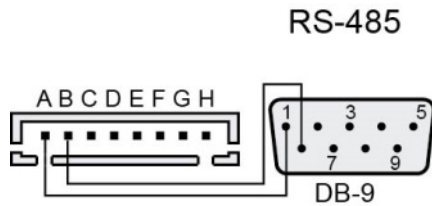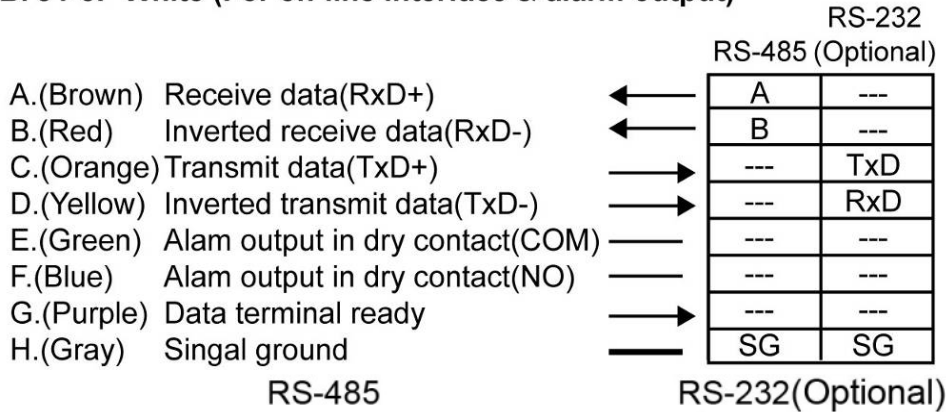### A. J2-9P Blue (For power input and access functions)

Pin	Signal	Description
1. (Red)	Power "+ "	+12V DC input
2.(Black)	Power " -"	GND
3. (Brown)	COM	Relay A (COM)
4.(Orange)	NO	Relay A (NO)
5.(Yellow)	NC	Relay A (NC)
6.(Green)		Exit push button
7.(Blue)		Door Monitor
8.(Purple)		Security sensor
9.(Gray)		Serial output.(RS-232 or open collector)

＊Once the 1100 (Disable the door monitoring function) parameter be set,
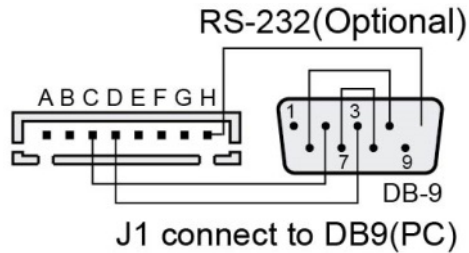the blue wire should be connected to GND.
Once the 1200 (Disable the security monitoring function) parameter be
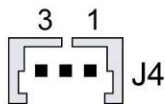set, the purple wire should be connected to GND.

ABCDEFGH

J1

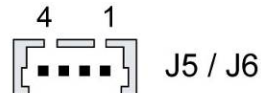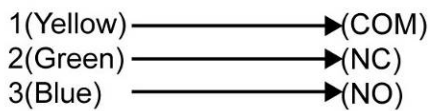## B. J1-8P White (For on-line interface & alarm output)

	RS-485 (Optional)	RS-232
A.(Brown) Receive data(RxD+) ←	A	---
B.(Red) Inverted receive data(RxD-) ←	B	---
C.(Orange) Transmit data(TxD+) →	---	TxD
D.(Yellow) Inverted transmit data(TxD-) →	---	RxD
E.(Green) Alam output in dry contact(COM) ——	---	---
F.(Blue) Alam output in dry contact(NO) ——	---	---
G.(Purple) Data terminal ready →	---	---
H.(Gray) Singal ground ——	SG	SG

RS-485

ABCDEFGH

DB-9

J1 connect to TCP/IP or
RS485 converter
(Just for PC-T100)

RS-232(Optional)

ABCDEFGH

DB-9

J1 connect to DB9(PC)

3 1

J4

C. J4-3P White
(For Tamper switch outport)

1(Yellow) ——→(COM)
2(Green) ——→(NC)
3(Blue) ——→(NO)

4 1

J5 / J6

D. J5/J6-4P White
(For external reader)

1(Red) ——→ DC 12V
2(Yellow) ——→ DATA 1
3(Green) ——→ DATA 0
4(Black) ——— GND -
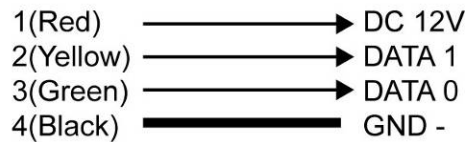
Note :

1. The distance between Main reader and external reader should be over 30cm to prevent mutual interference.

2. Please put some more no-metal plate between the reader & metal plate to enhance the reading distance.

ON-P5210:

5 1

J1
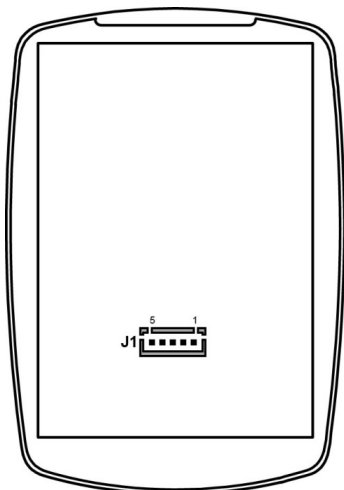
J1－Wiegand			
	Pin	Color	Function
	1	Red	+12V
	2	Black	GND
	3	Orange	Data 1
	4	Yellow	Data 0
	5	Green	---

- **How To Order**

ON-P6750VX/R5	2.4G Active RFID Access Control / Reader, Reading Range 15m
ON-P6750VXR5S3	2.4G Active RFID Access Control / Reader, Reading Range 3m
ON-P6750VXR5S5	2.4G Active RFID Access Control / Reader, Reading Range 5m
ON-P5210W34	2.4G Reader, Wiegand 34bit
ON-P5210W26	2.4G Reader, Wiegand 26bit
ON-P240	2.4G Active Card
ON-P-ADV-E-ELE	Access Control / Time & Attendance Software

Specifications subject to change without notice for further modification.