



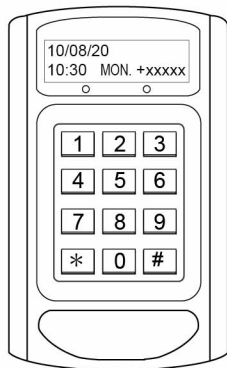
Pegasus

PP-6750V Series

Intelligent Time Attendance Recorder & Access Controller

Access Control/Time & Attendance /
Lift Access Control System/ Security
Operational Manual
Ver.18.2

For more details, please refer the CD firstly.

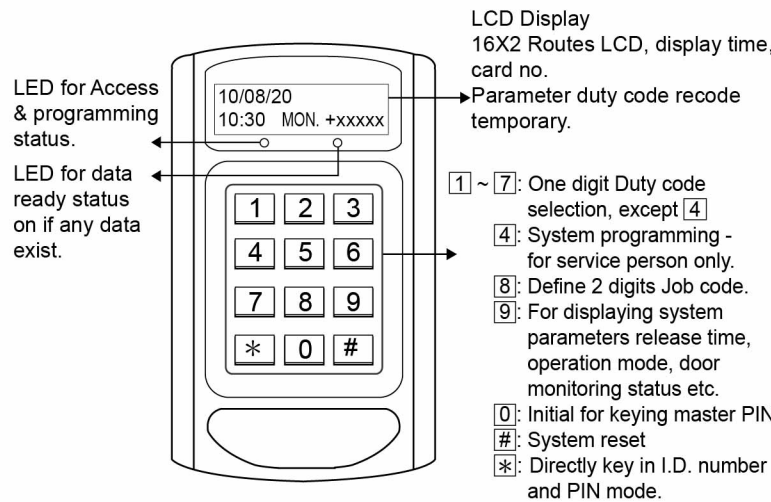


Specification

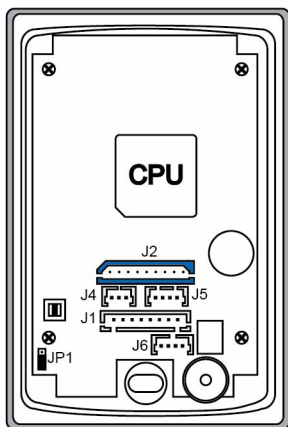
Dimensions	: 137mm(L) x 85mm(W) x 29mm(H)
Weight	: 340g ± 5%
Power supply	: DC 12V±10%, 80mA~100mA(not include power requirement for lock & alarm)
Transmission rate	: Default 9,600 bps N,8,1(2,400bps/4,800bps) (19,200bps/38,400bps<selectable>)
Operating temperature	: -20°C ~ 70°C
Operating humidity	: 10%~90%
Keypad	: 3 x 4 keypad for system programming, pass word entry or duty code selection.
Password	: Programmable 4 digits PIN for each person
Serial interface	: RS-485 / RS-232(Optional)
Serial output	: 1.For connection with serial printer. * 2.To drive DDR (digital door relay) for safety control model.
Card capacity/Events	: (1) K Version: 1,000 card capacity, 500 events. (2) L Version: 2,000 card capacity,1,000 events. (3) M Version: 30,000 card capacity,10,000 events. (4) N Version: 11,000 card capacity,32,000 events. (5) P Version: 11,000 card capacity,8,000 events. (6) X Series: 32,000 card capacity,32,000 events.
Card standard	: Other capacity combination requested by order : 125KHz ASK EM / 125KHz FSK HC/ 13.56MHz Mifare (ISO 14443A , ISO 14443B, ISO 15693) / 13.56MHz Felica (ISO 18092 UID) / Q type / Bluetooth ※ Support customized card.
External Reader	: 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.

Panel Description

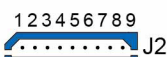


Bottom View



- 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)

Wiring Connectors and PIN assignment



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

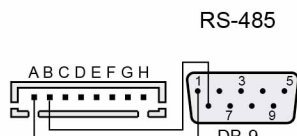
- | | | |
|-------------|-----------|--|
| 1. (Red) | Power "+" | +12V DC input |
| 2. (Black) | Power "-" | GND |
| 3. (Brown) | COM | Relay A (COM) |
| 4. (Orange) | NO | Relay A (NO) |
| 5. (Yellow) | NC | Relay A (NC) |
| 6. (Green) | | Exit push button |
| 7. (Blue) | | Door Monitor |
| 8. (Purple) | | 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.

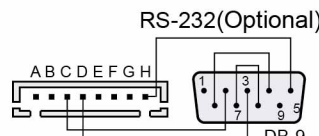


B. J1-8P White (For on-line interface & alarm output)

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



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

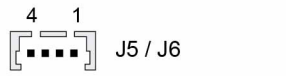


J1 connect to DB9(PC)



C. J4-3P White (For tamper switch output)

- | | |
|-----------|-------|
| 1(Yellow) | (COM) |
| 2(Green) | (NC) |
| 3(Blue) | (NO) |



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

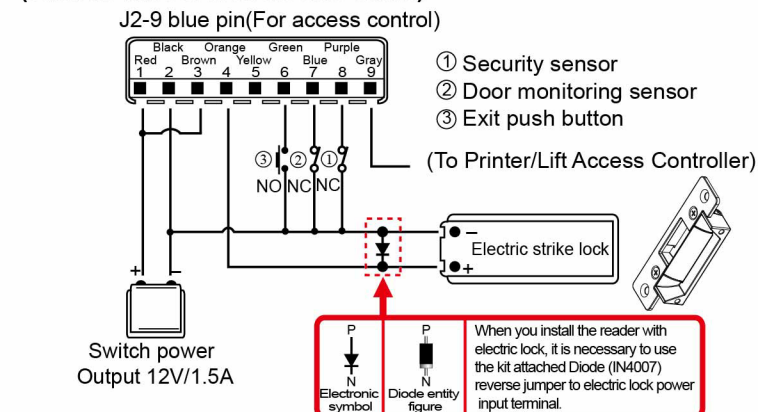
- | | |
|-----------|--------|
| 1(Red) | DC 12V |
| 2(Yellow) | DATA 1 |
| 3(Green) | DATA 0 |
| 4(Black) | GND - |

Note :

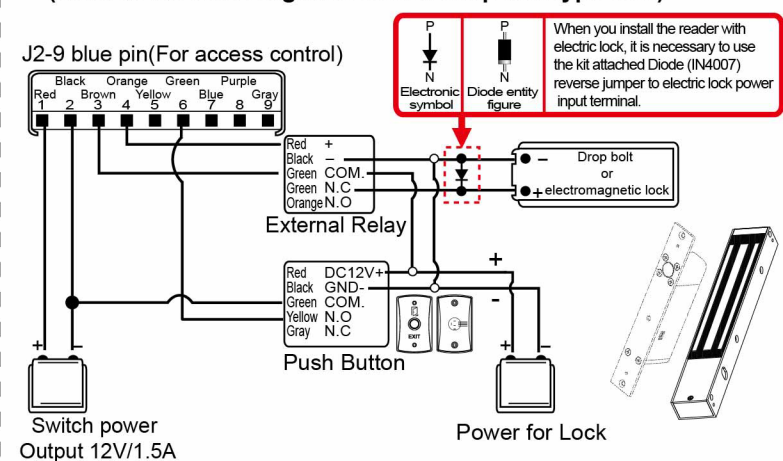
- The distance between Main reader and external reader should be over 30cm to prevent mutual interference.
- Please put some more no-metal plate between the reader & metal plate to enhance the reading distance.

Wiring Example

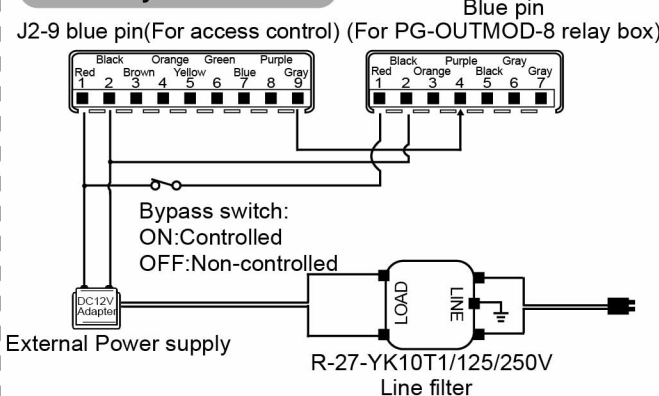
1.Wiring connection with external relay and power supply (such as fail secured electric strike)



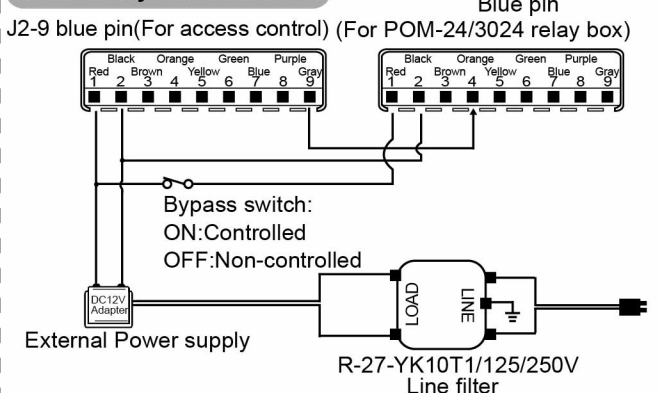
2.Wiring connection with external relay and power supply for heavy load locks (such as fail safe magnetic lock or drop bolt type lock)



3. 8F relay box connector



4. 24F relay box connector



- * R-27-YK10T1/125/250V is line filter to avoid signal interference.
- * If elevator controller doesn't work, please turn off "Bypass switch" of non-controlled button.
- * To connect 2 or 3 of 24 floor controllers to achieve 96 floors access of set up.
- * Please refer appendix for floor controller of relay operation manner.

Macro Instruction (Optional)

※For "Access Control" macro instruction

F4=0851

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0851]	For PN/Q/M8/M1 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9803 : Wiegand 26 bits card number.	F4=1101 : Enable the door monitoring.
F4=2106 : Door release time: 6 sec.	F4=3402 : Enable door PIN mode.
F4=1501 : Enable comparing card number.	F4=9705 : Compare card number by 6 th , 7 th , 8 th digits.
F4=8700 : For FIFO mode.	

F4=0852

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0852]	For M0 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9808 : Wiegand 34 bits card number.	F4=1101 : Enable the door monitoring.
F4=2106 : Door release time: 6 sec.	F4=3402 : Enable door PIN mode.
F4=1501 : Enable comparing card number.	F4=9704 : Compare card number by 5 th , 6 th , 7 th digits.
F4=8700 : For FIFO mode.	

※For "Lift Control" macro instruction

F4=0853

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0853]	For PN/Q/M8/M1 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9803 : Wiegand 26 bits card number.	F4=8610 : Enable lift control 8 floor.
F4=2108 : Door release time: 8 sec.	F4=1100 : Disable the door monitoring.
F4=1501 : Enable comparing card number.	F4=9705 : Compare card number by 6 th , 7 th , 8 th digits.
F4=8700 : For FIFO mode.	

F4=0854

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0854]	For M0 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9808 : Wiegand 34 bits card number.	F4=8610 : Enable lift control 8 floor.
F4=2108 : Door release time: 8 sec.	F4=1100 : Disable the door monitoring.
F4=1501 : Enable comparing card number.	F4=9704 : Compare card number by 5 th , 6 th , 7 th digits.
F4=8700 : For FIFO mode.	

F4=0855

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0855]	For PN/Q/M8/M1 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9803 : Wiegand 26 bits card number.	F4=8623 : Enable lift control 24 floor.
F4=2108 : Door release time: 8 sec.	F4=1100 : Disable the door monitoring.
F4=1501 : Enable comparing card number.	F4=9705 : Compare card number by 6 th , 7 th , 8 th digits.
F4=8700 : For FIFO mode.	

F4=0856

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0856]	For M0 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9808 : Wiegand 34 bits card number.	F4=8623 : Enable lift control 24 floor.
F4=2108 : Door release time: 8 sec.	F4=1100 : Disable the door monitoring.
F4=1501 : Enable comparing card number.	F4=9704 : Compare card number by 5 th , 6 th , 7 th digits.
F4=8700 : For FIFO mode.	

F4=0857

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0857]	For PN/Q/M8/M1 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9803 : Wiegand 26 bits card number.	F4=8633 : Enable lift control 48 floor.
F4=2108 : Door release time: 8 sec.	F4=1100 : Disable the door monitoring.
F4=1501 : Enable comparing card number.	F4=9705 : Compare card number by 6 th , 7 th , 8 th digits.
F4=8700 : For FIFO mode.	

F4=0858

Step	Description
Press[0] → master PIN [246890] → Press[4] → Press[0858]	For M0 format
Parameter mode:	
F4=9996 : Baud rate:9600	F4=2500 : The shortest time of display.
F4=9808 : Wiegand 34 bits card number.	F4=8633 : Enable lift control 48 floor.
F4=2108 : Door release time: 8 sec.	F4=1100 : Disable the door monitoring.
F4=1501 : Enable comparing card number.	F4=9704 : Compare card number by 5 th , 6 th , 7 th digits.
F4=8700 : For FIFO mode.	

System initialize and parameter setting: ※Manager could program the controller by pressing “0” and master PIN (default password as “246890”.The password could be modified by F4=4609)to get into PROGRAM mode(F mode)

The system initialization means the system parameters are defaulted by F4=0850. Then the user could modify some parameters based on it. After each modification to individual requirement, the user may backup them by code F4=0650. Once the parameters are destroyed, the code F4=0950 could be applied to restore it.

(“※” Optional)

	Function	Optional	Operation	Introduction
Operating Instruction	F0→ Delete mode		F0=0000	Delete all personal access map (deny all legal persons access status) take around seconds
	F1→ Key in user ID for access by master pin			
	F2→ Time mode		F2=W 0 hh mm	Ex. If the time was Wednesday, PM 3:03, then press F2+3 0 1503.
	F3→ Date mode		F3=YY MM DD	Ex. If the date was 23/01/2009, than press F3+09 01 23.
	F4→ Parameter modes & Modes		F4=FUNC_ _ _ _ _	Press 1501 to confirm if the card no. (ex. 12345678) is correct.
	F5→ Inquiry Personal access map		F5=CARD_ _ _ _ _ _ _ _	Inquiring card no.. Ex. Card no. is 12345668; if 12345678 is manifested on the screen, then, it is O.K.. Otherwise, C.ERR means a failure.
	F6→ Add personal map		F6=ADD CR_ _ _ _ _ _ _ _	Adding card no.. Ex. Press card no. 12345678, then add group no. (01~99)
	F7→ Delete personal map		F7=DELETE_ _ _ _ _ _ _ _	Deleting card no.. Ex. Card no. is 12345678, then press 12345678
	F8→ Time zone/holiday/bell programming & Inquiry		F8=ZONE_ _ _ _ _ _ _ _	Inquiring Time zone. (For details, please check our brochure. Thank you!)
	F9→ Modify events counter for event retrieving		F9=CNT St_ _ _ _ _ _ _ _	Deleting events. Press”000000”
System Initiation	F* →Display or print out recorded		F* =DISPLAY	Display or print out recorded
	Delete time zone		F4=0016	Delete all Time Zone data
	Delete holiday data		F4=0018	Delete all holiday data
	Delete bell alarm data		F4=0019	Delete all bell alarm data
	Delete group data		F4=0072	Delete all group data
Group 1: Input	Door monitoring		F4=1100/1101 disable/ enable door monitoring	Door monitoring time was set by F4=23tt. Alarm time was set by F4=22tt ※Once the 1100/1200 (Disable the door monitoring function) parameter be settled, the blue/ purple wire of J2 port should be connected to GND.
	Security monitoring		F4=1200/1201 disable/ enable security monitoring	
	Fire alarm signal		F4=1234/4321	Disable/Enable fire alarm signal to release the door automatically
	Compare card no.		F4=1500/1501 disable/ enable compare card No.	1501 is necessary for access control
	Not compare and add card by reading.		F4=1502	Not compare and add card by reading.
	Time zone setting		F4=1600/1601 disable/ enable compare time zone	Each group with 8 time zones could be programmed by F8
	Compare holiday		F4=1800/1801 disable/ enable compare holiday	Programmed by F8 and followed by the authority of Sunday
	Compare project number	*	F4=1900/1901 disable/ enable compare project number	Only for F4=9803, and must be leaning card project by 370n
Group 2: Output	Door release time		F4=21tt (tt=00~97) , default F4=2101 (1 second)	tt: Door release time from 01 to 97 in unit of 1 seconds. 2198: Setting door release time becomes minute unit, press 2198 again, door release time back to second unit. 2199: Output becomes normality, both on or off to switch.
	Alarm time		F4=22 tt (tt=00~98), default F4=2205 (5 seconds)	Alarm output timer for F4=1101 or 1201, or 23tt
	Door monitoring time		F4=23 tt(tt=00~98), default F4=2305 (5 seconds)	Give the alarm output after the tt door monitoring timer. (23tt > 21tt is necessary)
	Trial error counts		F4=2400/24tt (tt=01~99 times)	It outputs alarm if illegal card is approached over the tt times you programmed.
	Expiry date check		F4=2600/2601 disable/ enable	validity date programmed by PC only
	Bell alarm mode		F4=2800/2801 disable/ enable bell alarm	The system will recover F4=1100 & 1200 once you enable F4=2801.
Group 3: Operation mode	Show employees No. on LCD	*	F4=2900/2901 disable / enable employee no. shown on LCD	It can't be used with F4=2601 together
	Card only mode		F4=3200	
	Card+ PIN mode		F4=3300 (PIN is no need for external reader)	It's necessary to enable F4=1501 and program the PIN by F6
	Disable 3401/3402		F4=3400	
	Keyin card no.+ PIN mode		F4=3401 (Open door by press * + C1C2C3C4C5C6C7C8+PIN)	Program the card no. and PIN by F4=3300 and F6 first, then enable F4=3401 for pressing * + C1C2C3C4C5C6C7C8+PIN
	Door PIN mode		F4=3402 (Open door by press 7+door PIN)	7 door codes set by F4=4601~4607
	Keypad lock mode		F4=3500/3501 disable/ enable keypad lock	Disable keypad lock by pressing " 0 " for 5 seconds to get the beep, then press 246890 + 4 + 3500
	Disable duress function		F4=3600	+1 or -1 of independent pass code, the door will be unlocked and trigger to Alarm system.
	Duress code for card no.+ PIN		F4=3601 (Under F4=3401)	Ex. If the door PIN is set up as 1234, the duress code will be 1233 or 1235.
	Duress code for door PIN		F4=3602 (Under F4=3402)	
	Record the project number	*	F4=3700/370n delete project no. / directly reading card for comparing project number (for 9803 format only)	After programming 370n (n =1~9), please approach the card to device.
	Disable3801/3802/3803		F4=3800	Only one mode among 1601/3801/3802/3803 is allowed.
	Enable free access mode		F4=3801	Free access schedule set by F8
	Auto duty(Shift) mode		F4=3802	Shift schedule set by F8
	Automatic operation mode		F4=3803	Schedule for card only mode or card + PIN mode set by F8
	Anti-passback mode		F4=3900/3901 disable/ enable anti-passback mode	An external reader is necessary
	Setting door PIN		F4=460n + 4 digit PIN (n=1~7)	Enabled by F4=3402
Group 4: Add/ delete card number function	Set the master PIN for Pongee APP system.		F4=460*	Set the master PIN for Pongee APP system.
	Modify master PIN		F4=4609 + new 6 digit master PIN	Default master PIN as 246890
	Adding 90 codes 4 digits door PIN	*	F4=4610~4699	Adding 90 codes 4 digits door PIN (Under F4=3402)
	Clear all PINs	*	F4=4700	Clear all PINs
	Delete the corresponding PIN	*	F4=4710~4799	Delete the corresponding PIN

				F4=62nn (nn=01~99) Enable F4=1501+1601 and program time zones by F8. You should delete all groups by F4= 0072 before your first setting for F4=62nn.	Time Zone: Time Zones 01~08 should be corresponding 81~88. Ex. Group no. 3 is legal for time zone 01,03,05, you should program F4=6203 81838599. (Please fill out 9 for the blank time zone.) Lift floor : F4=62nn 01020500, (Group no. nn is legal for 1,2,5 floors) (Please fill out 0 for the blank floors.)																																																	
	Legal floors for group add time zones			F4=6333 adding the card one by one	The default group no. is 00 for F4=6333. If you need to enable F=1601, please add the card no. by F6 or F4=6600.																																																	
	Add card No. by learning mode			F4=66nn 8 digits card no. of the first card +nn+ The last 4 digits of ending card no. (nn=group 01~99)	Ex. Add card no. from 00020376 to 00020576,group no.01, then press F4=6601 00020376+01+0576																																																	
	Add card No. by block mode			F4=72nn (nn=01~99)	Time Zones 01~08 should be corresponding 81~88. Ex. Delete group no. 1, you only program F4=7201 81828384 85868788																																																	
	Delete group			F4=7333	Delete some cards by approaching it continuously																																																	
	Delete card with leaning mode			F4=77nn 8 digits card No. of the first card +nn+ The last 4 digits of ending card no. (nn=group 01~99)	Ex. Delete card no. from 00020376 to 00020576,group no.01, then press F4=7701 00020376+01+0576																																																	
	Delete cards with block mode																																																					
Group 8: System configurations	Check repeat reading card			F4=8300/830t disable/ enable check repeat reading the same card at t minutes (t=1~9 minute)																																																		
	Store error and exit push button events			F4=8400 only store normal access event	Error message: Time zone error/ illegal card No. / door and security monitoring/ anti-passback/ password error.....etc.																																																	
				F4=8401/8402 store the event of error/ exit push button																																																		
				F4=8403 store the event of error and exit push button																																																		
	Send out all personal map			F4=8599	for PC on-line test only																																																	
	Elevator control setting (must collocate relay box)	* 8691	F4=86FS	Print output FS=00~03	86	F(floor)	S(serial output)																																															
						F=0	Without lift output (for access only)	S=0	Disable output																																													
								S=1	RS-232 output																																													
								S=2	RS-485 output																																													
								S=3	RS-232/RS-485 output																																													
					FS=10 Support 8 floor																																																	
					FS=23 Support 24 floor																																																	
					FS=33 Support 48 floor ~64 floor																																																	
					* FS=91 Support 96 floor output(without time zone function)(optional)																																																	
	FIFO (First In First Out)			F4=8700/8701 not recycle / recycle	the event buffer counter designed by FIFO mode to 00000 when buffer is full.																																																	
	Device address			F4=88aa (aa=00~99)	Set device address as aa for polling. Default address as 00.																																																	
	Waiting time for compare card no.			F4=890n (n=0~9)	If n=0, the system is batch mode (authority compared by device). If n=3, the system is real-time mode (authority compared by PC). If not necessary, we suggest 8900 to shorten the access response time																																																	
Group 9: Factory configuration	Time Trimming			F4=92nn	nn=00~31the modification factor as the RTC is fast nn=32~63 the modification factor as the RTC is slow Ex. As the crystal is faster than 2Hz, then the factor is 21(F4=9221)																																																	
	Select the card digits as group index for comparing.	*	F4=970N	Select the card digits as group index for comparing.																																																		
				Card number																																																		
				1	2	3	4	5	6	7	8																																											
				9700																																																		
				9701																																																		
	9702																																																					
	9703																																																					
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	9705																																																					
Need to set F4 = 9705 on the PN/Q/M1/M8 format Need to set F4 = 9704 on the M0 format (Default F4=9704)																																																						
Reverse the Wiegand number for decoding	*		9781	(New version firmware)																																																		
Show name at LCD	*		F4=9600/9601 disable/ enable show name at LCD	Memory will be half for F4=9601																																																		
Card display format			F4=98Pd	<table><tr><td colspan="2">P=Format</td><td colspan="2">d=Card format</td></tr><tr><td>P=0</td><td>PN format</td><td>d=3</td><td colspan="5">p p p . c c c c c, 26bit(3P5C)</td></tr><tr><td>P=1</td><td>PP format</td><td>d=5</td><td colspan="5">000CCCCC, 35bit, HC</td></tr><tr><td>P=2</td><td>PN format</td><td>d=6</td><td colspan="5">000CCCCC, 26bit</td></tr><tr><td>P=3</td><td>PP format</td><td>d=8</td><td colspan="5">C1C2C3C4C5C6C7C8, 34 bit</td></tr><tr><td colspan="7">Ex.F4=9803 PN format, p p p . c c c c c, 26bit(3P5C)</td></tr></table>								P=Format		d=Card format		P=0	PN format	d=3	p p p . c c c c c, 26bit(3P5C)					P=1	PP format	d=5	000CCCCC, 35bit, HC					P=2	PN format	d=6	000CCCCC, 26bit					P=3	PP format	d=8	C1C2C3C4C5C6C7C8, 34 bit					Ex.F4=9803 PN format, p p p . c c c c c, 26bit(3P5C)						
P=Format		d=Card format																																																				
P=0	PN format	d=3	p p p . c c c c c, 26bit(3P5C)																																																			
P=1	PP format	d=5	000CCCCC, 35bit, HC																																																			
P=2	PN format	d=6	000CCCCC, 26bit																																																			
P=3	PP format	d=8	C1C2C3C4C5C6C7C8, 34 bit																																																			
Ex.F4=9803 PN format, p p p . c c c c c, 26bit(3P5C)																																																						
Baud rate	* 9919 * 9938		F4=9924 / 9948 / 9996 /9919 /9938 Baud rate= 2,400/4,800/9,600/19,200/38,400 bps	Factory default 9996=9,600BPS																																																		
Add/ delete personal map	Add card no. only (Under F4=3200)		F6=8 digit card no. + group no.	F6= C1C2C3C4C5C6C7C8+nn , nn=01~99 Ex. Add card No.12345678, and group no. 01, than press F6+12345678+01																																																		
	Add card no. and PIN (Under F4=3300)		F6=8 digit card no. + group no. + 4 digit PIN	F6= C1C2C3C4C5C6C7C8+nn+dddd , nn=01~99 Ex. Add card no.12345678, PIN 9999 , and group no. 01, then press F6+12345678+01+9999																																																		
	Delete personal map		F7=8 digit card no.																																																			