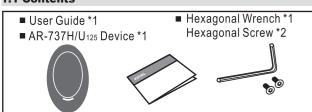
1. AR-737H/U 125 INTRODUCTION

The AR-737H/U₁₂₅ is a proximity reader which allows performing as an auxiliary WG reader(AR-737U 125) or networking reader(AR-737H 125)

1.1 Contents



1.2 Specification

Frequency	125KHz
Power Requirement	9-24 VDC
Power Consumption	<1.5W
Communication Interface	RS-485(737H only),Wiegand
Communication interface	(737U only)and OMRON
Baud Rate	9600 bps / 19200 bps(N,8,1)
Environment	-20°C~+75°C
Indicator	A bi-color LED and a beeper
Read / Write	Read only
Proximity Reading Range	12-20cm
Supported Tags	EM4001/EM4012 compliant
Waterproof	Yes(Option)
Color	Dark Gray
Dimension(mm)	113(L)x71(W)x36(H)
Weight(g)	80
Housing Material	ABS

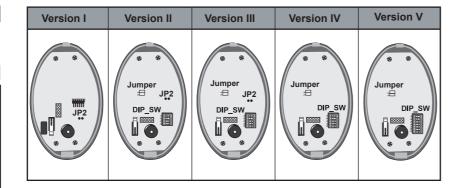
1.3 Difference in Versions

Mode	4 D =0=11	45	
Version	AR-737U	AR-737H	
I	JP2 Open	JP2 Close	
	JP2 Open	JP2 Close	
	4-PIN Jumper select "WG"	4-PIN Jumper select "OUTPUT"	
II	1 ON 2 ON 4 ON 4 ON 1	ON 2 - 3 - 4	
	JP2 Open	JP2 Close	
	5-PIN Jumper select "WG"	5-PIN Jumper select "OUTPUT"	
III	ON 2	ON 2 3 4 5 5	
	6-PIN Jumper select "WG"	6-PIN Jumper select "OUTPUT"	
IV	1	ON 2 3 4 5 6 1	
	8-PIN Jumper select "WG"	8-PIN Jumper select "OUTPUT"	
V	ON 1	ON 2 3 4 5 6 7 6 7 6 8 6 7 6 8 6 7 6 7 6 7 6 7 6 7	

Warranty

SOYAL warrants that the product(s)shall be free from manufacturing defects in materials and workmanship for a period of fifteen(15) months from the date of delivery provided that the product was properly installed and used.

because it is SOYAL warranty.



1.4 Mode Setting

Mode Unit	VersionI,II,III JP2	Version IV DIP_SW6	Version IV DIP_SW6.7.8
737U125(WG)	Open(Off)	Open(Off)	J6.Open(Off) J7.Close(On) J8.Close(On)
737H125(RS-485)	Close(On)	Close(On)	J6.Close(On) J7.Open(Off) J8.Open(Off)

1.5 Wiegand Format Setting

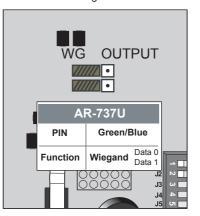
Output format	J1 (DIP_SW1)	J2 (DIP_SW2)	
ABA_II / OMRON	Close (On)	Close (On)	
WG-38	Open (Off)	Close (On)	
WG-34	Close (On)	Open (Off)	
WG ⁻ 26	Open (Off)	Open (Off)	

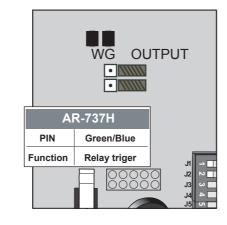
1.6 Indicator Displaying Way While Card Flashin

Indicator while card present	J3 (DIP_SW3)	J4 (DIP_SW4)
Red LED On	Close (On)	Close (On)
Green LED On	Open (Off)	Close (On)
Red LED & Beep On	Close (On)	Open (Off)
No LED or Beep sound	Open (Off)	Open (Off)

1.7 Adding for Version II & III & IV

The version II, III & IV add a 6-pin jumper for wiegand signal or relay output selection. Its setting should follow the rules as below:





Please visit WWW.SOYAL.COM to download the Soyal software, Manual, Catalog & User guide

2. PIN DEFINE

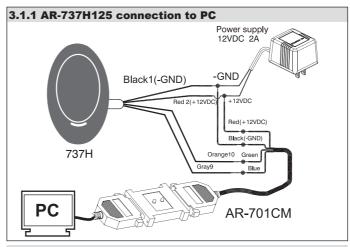
2.1 Wiring of AR-737H/U 125 (Version I)

PIN	Description		Color	Function
1	DC P	ower Input	Black	GND
2	DC P	ower Input	Red	V12
3	Beeper Control Input (Active low)		Purple	BEEP
4	WG Data 0	OMRON: Data	Green	Output
5	Card Present Output (Active low)		White	Output
6	WG Data 1 OMRON: Clock		Blue	Output
7	R-LED control input		Yellow	Input
8	G-LED control input		Brown	Input
9	RS-485 A+		Gray	Signal
10	RS-485 B-		Orange	Signal

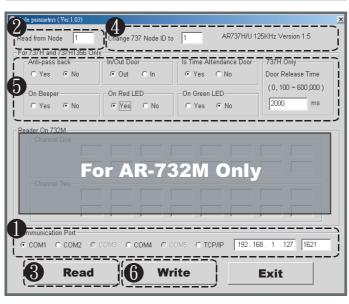
2.2 Wiring of AR-737H/U 125 (Version II& III & IV)

	9		,	
PIN	Description		Color	Function
1	DC Power Input		Black	GND
2	DC Power Input		Red	V12
3	Beeper Control Input (Active low)		Purple	BEEP
4	WG Data 0 OMRON: Data	Door Relay	Green	Output
5	Card Present Output (Active low)		White	Output
6	WG Data 1 OMRON: Clock	Alarm Relay	Blue	Output
7	R-LED control input	Door Sensor	Yellow	Input
8	G-LED control input	Egress	Brown	Input
9	RS-485 A+		Gray	Signal
10	RS-485 B-		Orange	Signal
			•	

3. INSTALLATION DIAGRAM



3.1.2 Software setting from Soyal device tools



- Select communication port.
- 2 Enter the target AR-737H's Node ID (To ignore Node ID, enter 255)
- 3 Click "Read" to upload parameters from device to Node737 application.
- 4 The screen will show current device parameter and its version, and then key-in the Node ID you want to change
- 5 Enable or disable the functions of AR-737H.
- 6 Click "write" to download new setting to device.

