



VG880



VG100

Vigilance
Your Total Security Partner



VG880

Network Fingerprint Reader
for time attendance and simple access control

Top Features



Biometric fingerprint clocking terminal with built in single door controller. Optimized design allows VG880 to be affordable for everyone. Vigilance offer a fully integrated hardware and software time attendance solution suitable for small offices as well as complicated factory style working shifts. No more troublesome manual import or export in between hardware and time attendance software of different brands.

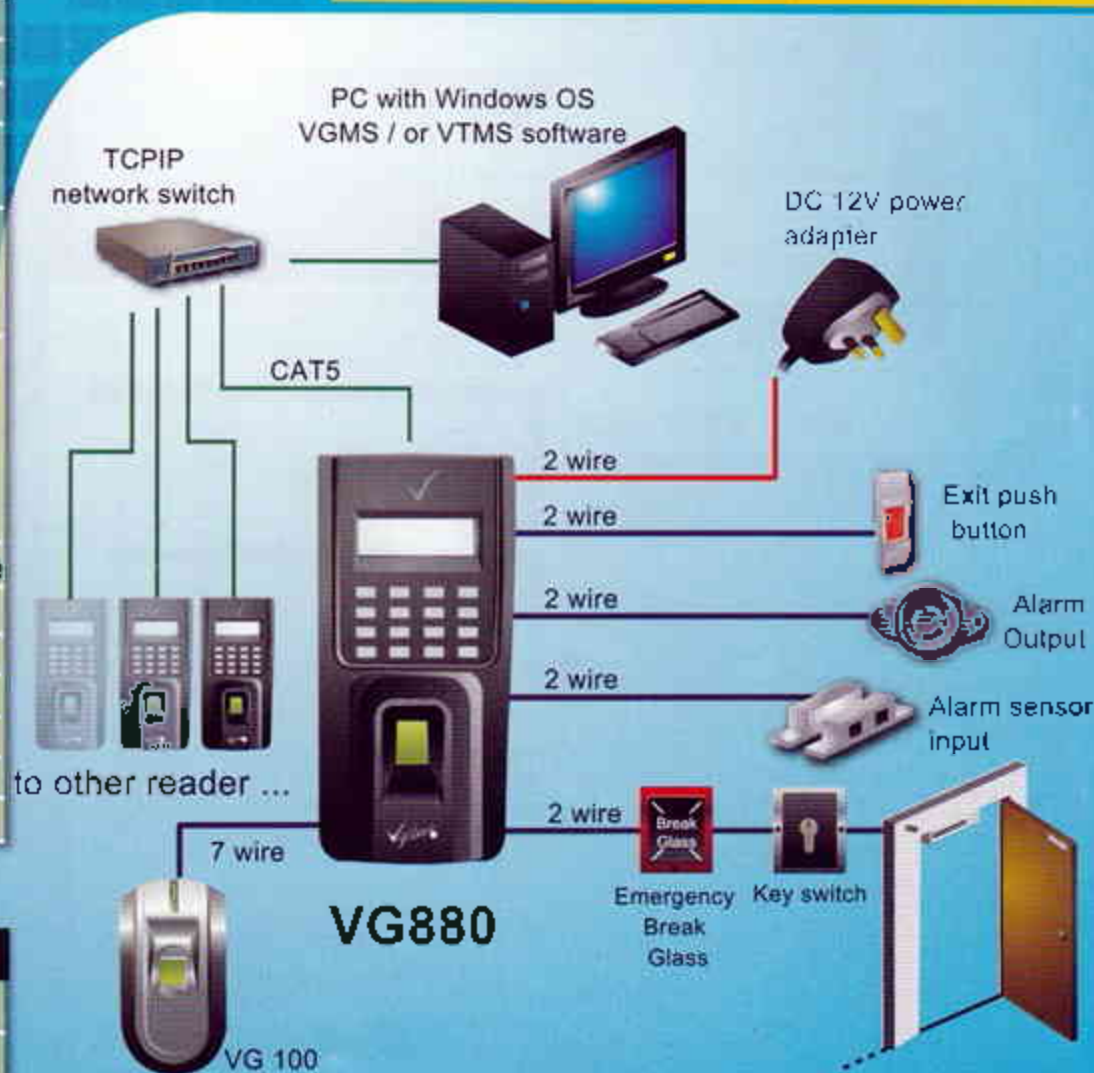
Specification

Feature	Description
Transaction Memory	100000
User Capacity	Fingerprint record 3000 fingerprint template max 10 fingerprint per user
Card User	10000 cards
CPU	64 bit microprocessor
FAR (Fault accept rate)	≤ 0.0001%
FRR (Fault reject rate)	≤ 1%
Sensor	Super optical sensor
Matching mode	Verification (1:1) Identification (1:N)
Fingerprint access mode	Fingerprint only Card and fingerprint Card only
Access control	50 Time Zone, 5 Grouping, 10 Combination, Holiday Management, support many fingerprints access, support standalone work
Baud rate	9600 ~ 115 kbps programmable
Ethernet	10/100M
Operating temperature	0°C ~ 45°C
Humidity operating	20% - 80%
Power	12V DC
USB	Mini USB 2.0 Port
Anti-passback	YES with VG100 reader

VG100 (Exit Reader) Technical Specifications

Embedded EM Proximity Card Reader
No template store in VG100 Exit reader

INSTALLATION DIAGRAM



Time Attendance Software

VGMS

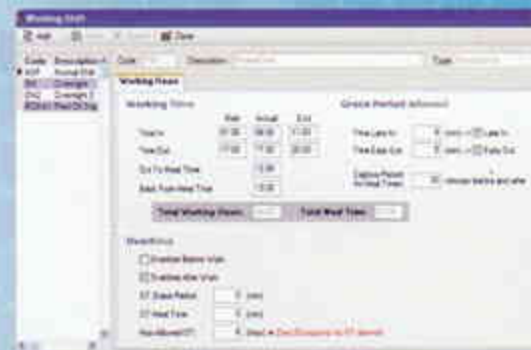
VGMS is standard software that come bundled with the hardware. It contains the most commonly used features. VGMS is ideal solution for company with normal office working hour.



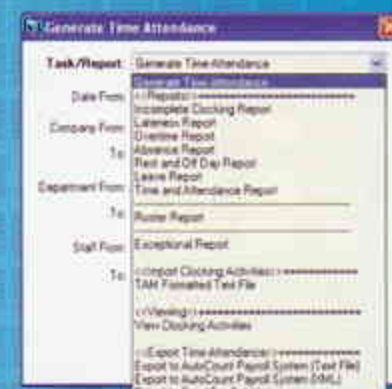
Reader Manager



User Profile



Time Schedule

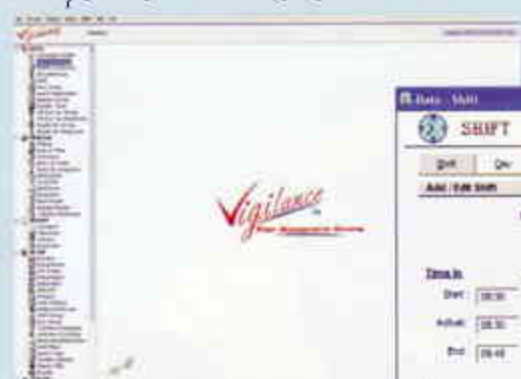


Generate Standard Report

VTMS

VTMS is an advance time attendance control software. VTMS offer more extensive time attendance function to cater for multi overnight shift in factory, call centre or big offices.

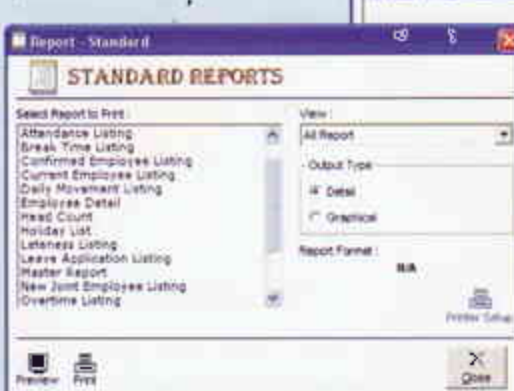
Simple and clean menu



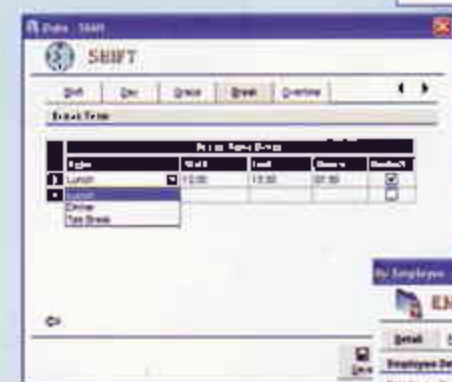
More detailed Shift definition



Standard Reports



Customized Reports

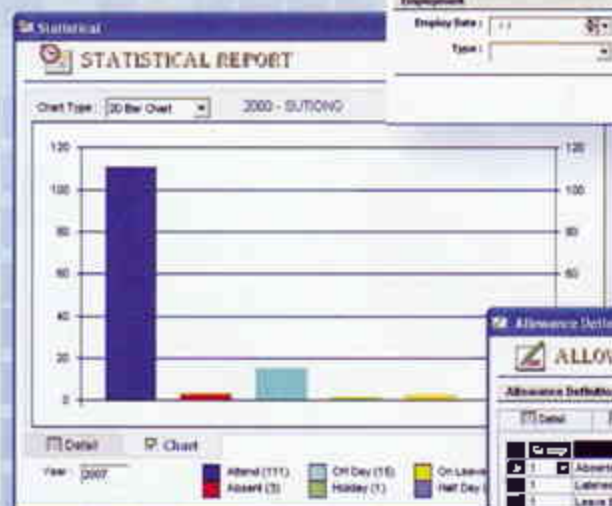


Employee Profile

Factory style multiple break time within shift



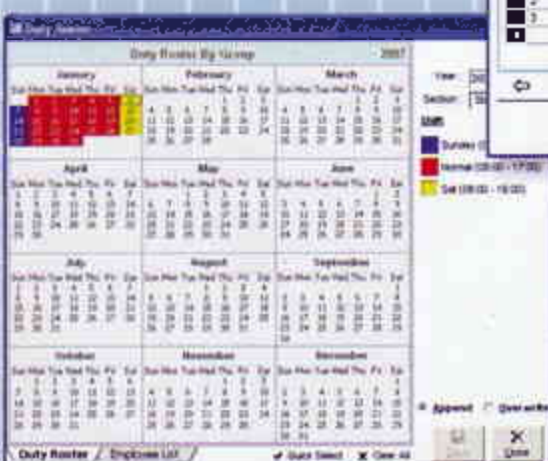
Graphical statistic



Allowance deduction



Advanced duty roster for rotating shifts



VGMS and VTMS Comparison Chart

FEATURES

VGMS VTMS

User License Control – Dongle	O	X
Normal Shift	O	O
Multiple Shift per user	O	X
Flexible Shift (Together with non Flexible shift)	O	X
Overnight Shift Support	O	X
Automatic Shift Allocation based on clocking time	O	X
Graphical yearly duty roster	O	X
Export – Text File Formatted Transaction (User Definable)	O	O
Database – MS Access	O	O
3rd Parties Payroll Integration	NetHR	X
.NET Framework Technology	O	X
Customizable listing print out	O	X
Definable Global Rest Day and Off Day	O	X
Definable Individual Rest Day and Off Day	O	X
Powerful Attendance editing/verifying interface screen	O	X
Graphics statistical report	O	X
Reader and User Management	VRM	ZK
Schedule Download Transaction	O	O
Audit trail	O	X

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Standard

Access control system

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Soyal STANDARD system is water splash proof designed for more demanding site condition. Effectively control who (card user) can enter where (door group) at what time (time zone) using what method (card and/or pin)

- LCD screen allow more user friendly menu driven usage
- Synchronised time display on LCD to avoid any employee clocking time dispute
- F1, F2, F3 and F4 for advance attendance
- Connect to PC for reporting and time attendance
- Alarm function - force entry, door open too long and tamper warning
- Auto RF-learning for faster and easier card enrollment
- Tamper protection system and full 10 digit wiegand format for higher security
- Built-in watchdog to prevent system hang
- Stylish modern design to enhance any decoration



AR727H

Controller with built-in reader

AR737U

Auxiliary Wiegand reader



time attendance



turnstile access



elevator access



Door access



parking access



ONE FOR ALL HARWARE, ALL IN ONE SOFTWARE

Standard RFID access control system



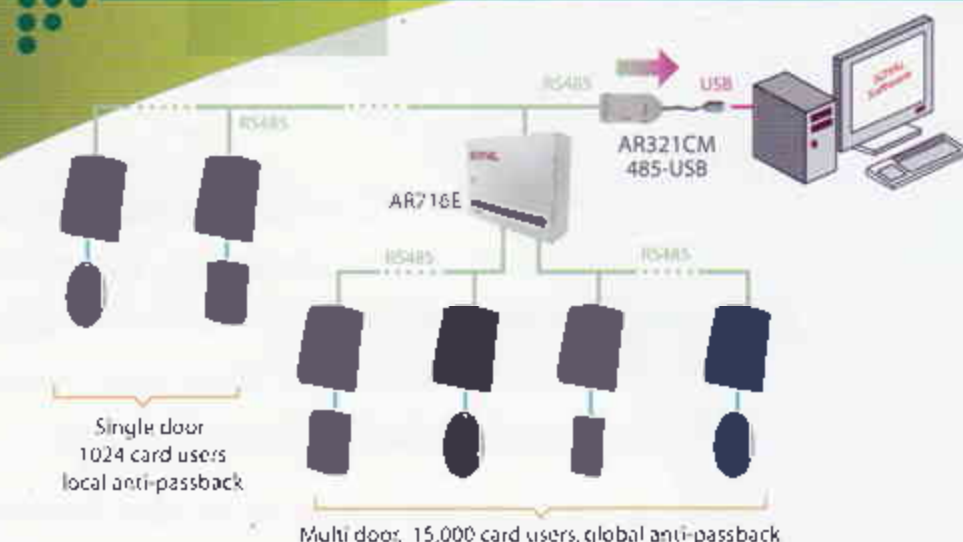
AR727H is a single door controller with built-in RF reader. AR727H can work standalone (1024 users) or connect to AR716E multi-door controller (15K users). AR727H can effectively protect your premises from unwanted visitor and at the same time function as time attendance clocking terminal. With all-in-one software, this is simply the best value solution.

Generally, AR727H is installed inside as EXIT reader while AR737U installed outside as ENTRY reader. There are 2 versions available: AR727H (Standard 125Khz) and **AR727H_1356** (Mifare 13.56Mhz).

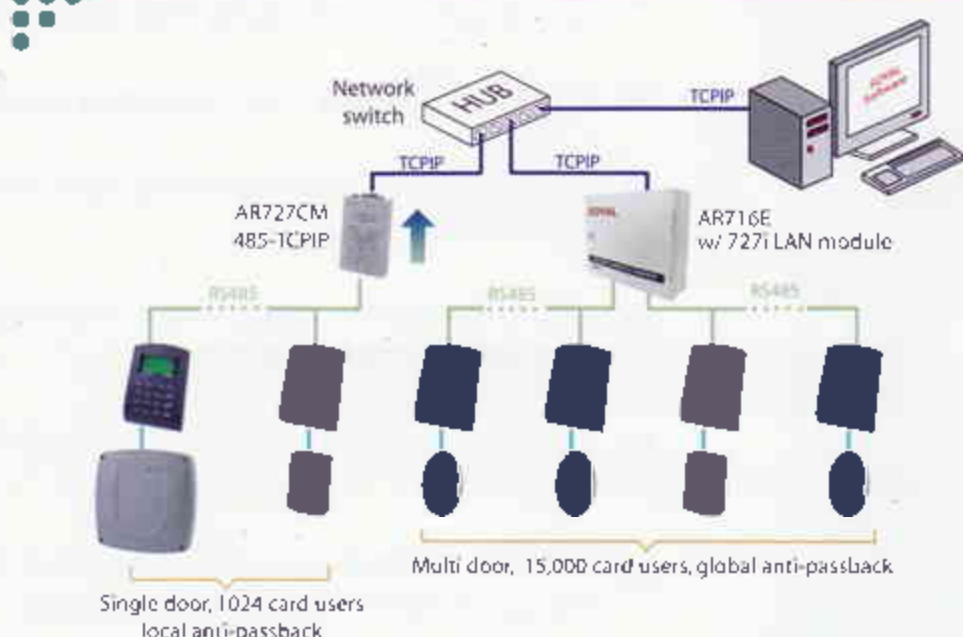
AR727H specification

Built-in-operation mode	M4	M6	M8
Card User	1024	65,536	1024
Event Memory	1200	NONE	1200
Time zone / holiday	11 / 120	NONE	11 / 120
Anti-passback	YES	NONE	YES
Alarm (tamper, force entry & door open too long)	YES	NONE	YES
Elevator control	1024 users, 32 floor	NONE	1024 users, 32 floor
DirectPC software	YES	NONE	YES
Multi reader networking with AR716E	YES	NONE	YES
Access mode	Card only, Card or pin, Card and pin		
Access pin number format	5 digit user num + 4 digit pin	Public pin 4 digit	User pin 4 digit
Big LCD screen	Resolution 128 x 64 4 text lines with 16 characters each line		
Wiegand port	1 input port (selectable WG 26 or 34)		
Push button input	1 negative trigger input		
Alarm sensor input	1 negative trigger input		
Door output (dry contact)	0.1-600 sen N.O/N.C, max 24V-1A		
Alarm output (open collector)	0.1-600 sec, active low output		
Reader RF frequency	125KHz or Mifare 13.56Mhz		
Reading range	approx 10cm (4inch)		
Data communication	RS485-9600 bps (N,8,1)		
Power consumption	10-24V, less than 3W		
Dimension, weight	126(h) x 91(w) x 46(d) mm, 210 gram		

RS485 network connection



TCP/IP network connection



AR737U wiegand specification

RF frequency	125KHz or Mifare 13.56Mhz
Reading range	7 cm
Power consumption	9 - 16V, less than 1.5 W
Dimension, weight	113(h) x 71 (w) x 36(d) mm, 90 gram

Standalone connection



Accessories



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Multidoor

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Access control system

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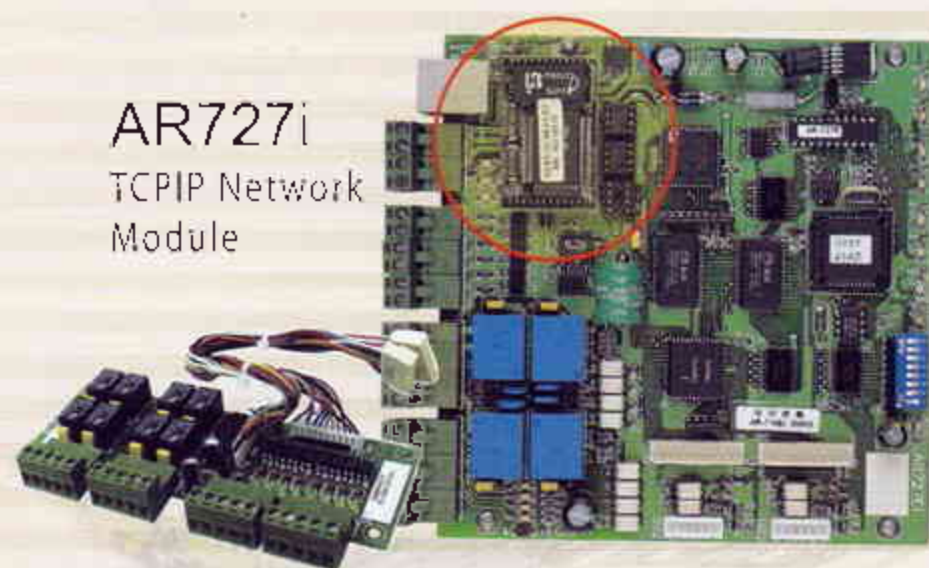


SOYAL multidoor controller. Advanced & more extensive control of who (card user), which door (door group), when (time zone) using what method (card and/or pin). High capacity 15,000 user of GLOBAL anti-passback across all online readers.

- 4 programmable input and 4 weekly scheduled output for automation function. Support I/O expander for additional 8 input & 8 output.
- Centralized door lock control for each reader to achieve tamper proof security.
- Provide more efficient data collection and monitoring of each reader. Alarm notification if **reader offline**, force entry or anti-passback error.
- Expiry date for all users.
- Door auto unlock following **pre-set time zone** schedule.
- Schedule auto reset of anti-passback.
- Output for parking full or empty.
- Can use online reader to manually control other electrical equipments.
- Support different access mode within the same day for tighter security. Eg. Morning is card only, Night is card & pin and no access after midnight.
- Emergency all door open through software or push button.



AR716E
Multidoor Controller



AR727i
TCPIP Network
Module

AR716EIO
Expander Relay Board



Programmable Input / output



15000 user



Multi Parking



Multi Door access



Centralized Control



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AR716E specification

Card user	15000
Event memory	11000
Time zone	63
Holiday per year	120
Door group	255
Anti-passback	Global anti-passback among 16 readers
Node address setting	On board DIP switch
Automation function	Programmable 4 input and 4 output
Duress function	4 set of duress pin number
DirectPC software support	YES
Programming method	Program new user and operation parameters through software.
Max reader supported	16 readers
External Wiegand port for anti-passback function	2 port for in and out
User expiry date setting	Full range for 15000 users for ending expiry date only.

RF frequency	125KHz or Mifare 13.56 Mhz
Reading range	8 - 15 cm
Relay output (EM Lock / Electric lock)	N.O. / N.C. / COM Latch type
Door unlock time interval	Pre-set time 0.1 to 600 sec
Alarm relay output (Buzzer)	12V / 2A N.O. / N.C. (set by jumper) COM common 0-600 sec
Serial port	RS485, 9600, N, 8, 1
Power consumption	10-24 VDC. Less than 5W.
Dimension (mm)	128 (L) x 96 (W) x 41 (H)
Weight	240 g

Accessories



The diagram illustrates a multi-door access control system architecture. It features two AR716E readers connected to a central AR716E reader. This central reader is connected to an AR708CM 485-USB interface unit, which is then connected to a computer. The system is designed for multi-door access, supporting 16 readers, 15,000 card users, and global anti-passback functionality.

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The diagram illustrates the AR7271 reader board and its connections. Key components and connections include:

- Ports 1 and 2:** Wiegand reader IN and OUT, each using a 6-wire connection.
- EXKS and EXK1:** 8 input and 4 output connections for EXKS, and 4 output connections for EXK1, each using a 5-wire connection.
- TCPIP Network:** Cat 5 connection, optional AR7271 module, and 12V Power connection.
- RS485:** 2-wire RS485 connections for 8 readers (9-16) and 8 readers (1-8).
- USB:** AR708CM 485-USB module connected to the 2-wire RS485 line.

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Basic

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Access control system

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Soyal Basic system is efficiently optimized for low budget door, turnstile, parking and elevator access control system. Effectively control who (card user) can enter where (door group) at what time (time zone) using what method (card and/or pin)

- Connect to PC for reporting and time attendance
- Alarm function - force entry, door open too long and tamper warning
- Auto RF-learning for faster and easier card enrollment
- Tamper protection system and full 10 digit wiegand format for higher security
- Built-in watchdog to prevent system hang
- Real time clock for accurate time records
- Programmable auto door-unlock schedule
- Compact modern design looks good in any decoration



AR721H
Controller with
built-in reader



AR721U
Auxiliary Wiegand
reader



time attendance



turnstile access



elevator access



Door access



parking access



ONE FOR ALL HARWARE, ALL IN ONE SOFTWARE

Basic RFID access control system

AR721H is a single door controller with built-in RF reader. AR721H can work standalone (1024 users) or connect to AR716 multi-door controller (15K users). During AR716 failure, AR721H will auto switch to standalone mode and continue to run as secondary system. Generally, AR721H is installed inside as EXIT reader while AR721U installed outside as ENTRY reader

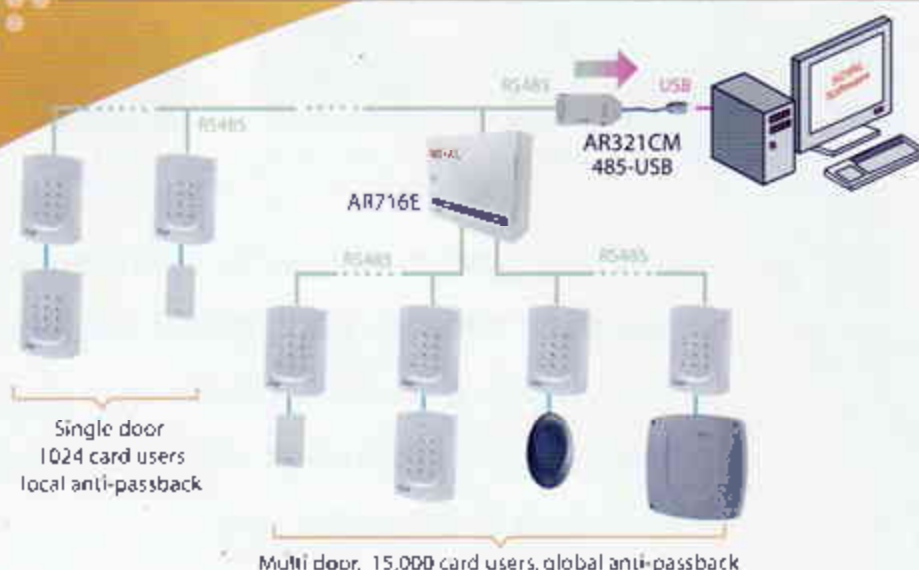
There are 2 versions available : AR721H (Standard 125Khz) and AR721H_1356 (Mifare 13.56Mhz)



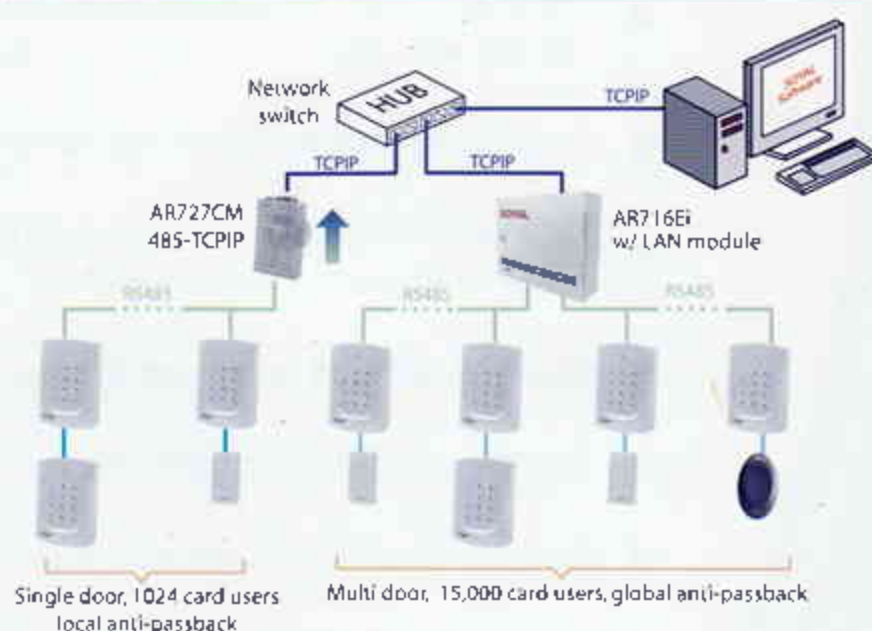
AR721H specification

Built-in-operation mode	M4	M6	M8
Card User	1024	65,536	1024
Event Memory	1200	NONE	1200
Time zone / holiday	11 / 120	NONE	11 / 120
Anti-passback	YES	NONE	YES
Alarm (tamper, force entry & door open too long)	YES	NONE	YES
Elevator control	1024 users, 32 floor	NONE	1024 users, 32 floor
DirectPC software	YES	NONE	YES
Multi reader networking with AR716E	YES	NONE	YES
Access mode	Card only, Card or pin, Card and pin		
Access pin number format	5 digit user num + 4 digit pin	Public pin 4 digit	User pin 4 digit
Wiegand port	1 input port (selectable WG 26 or 34)		
Push button input	1 negative trigger input		
Alarm sensor input	1 negative trigger input		
Door output (dry contact)	0.1-600 sec N.O/N.C, max 24V-1A		
Alarm output (open collector)	0.1-600 sec, active low output		
Reader RF frequency	125KHz or Mifare 13.56Mhz		
Reading range	approx 10cm (4inch)		
Data communication	RS485-9600 bps (N,8,1)		
Power consumption	9-16V, less than 3W		
Dimension, weight	111(h) x 77(w) x 26(d) mm, 210 gram		

RS485 network connection



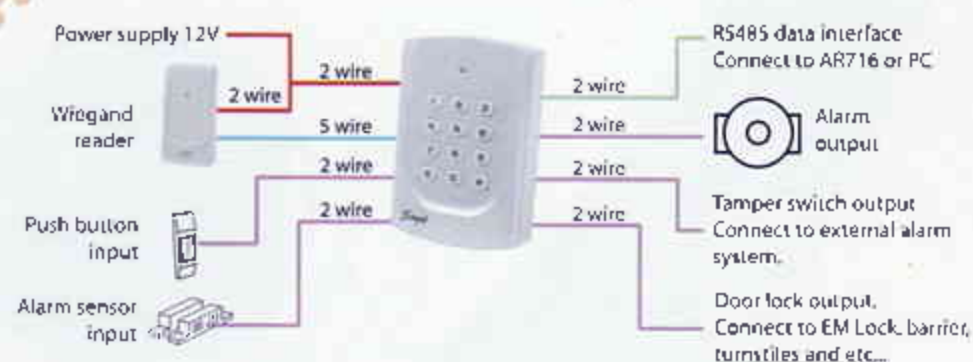
TCPIP network connection



AR721U wiegand specification

RF frequency	125KHz
Reading range	7 cm
Power consumption	9 - 16V, less than 0.7 W
Dimension, weight	81(h) x 43 (w) x 18(d) mm, 45 gram

Standalone connection



Accessories



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Performance

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Access control system

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Soyal advanced and more precise control of who (card user) can enter where (door group) at what time (time zone) using what method (card and/ or pin).

- High user capacity up to 15000 cards.
- Can set different access method following up to 63 interval within same day.
- Ability to set expiry date for users.
- Advance attendance "Auto" change shift duty or "manually" press function key (F1,F2,F3,F4)
- User friendly big LCD showing welcome screen, employee alias name, time, date display to avoid any employee clocking time dispute.
- Programable scheduled output to external music box for shift announcement.
- HW parameter, time attendance & reporting set from PC.
- Alarm function - force entry, door open too long and tamper warning.
- Full 10 digit wiegand format for higher security.
- Auto RF learning for faster and easier card enrollment.
- Compact modern design suitable in any decoration.
- Built in watchdog to prevent system hang



AR829E
Controller with
built-in reader



AR721U
Auxiliary Wiegand
reader



time attendance



turnstile access



elevator access



Door access



parking access



ONE FOR ALL HARDWARE, ALL IN ONE SOFTWARE

Performance RFID access control system

AR829E is a high performance single door controller with built in RF reader. Multiple AR829E can be connected together to PC. AR829E can effectively protect your premises from unwanted visitor and at the same time function as time attendance clocking terminal. With all-in-one software, this is the best value solution.

Generally, AR829E is installed inside as EXIT reader while AR721U installed outside as ENTRY reader. There are 2 versions available: AR829E (Standard 125Khz) and AR829E-1356 (Mifare 13.56Mhz).



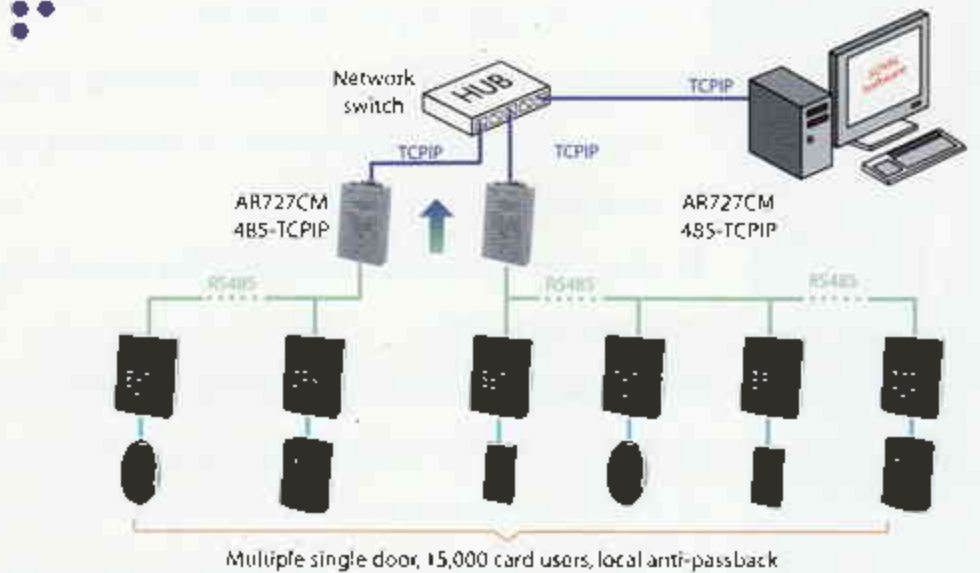
AR829E specification

Card user	15000
Event memory	11000
Time zone / Holiday	63 / 120
Door Group	255
Anti-passback	YES, Local anti-passback only
Alarm (Tamper, force entry & door open too long)	YES
Elevator Control	15000 users / 64 floor
Direct PC software	YES
Multi reader networking with AR716E	NO
Access Mode	Card only, card or pin, card and pin
Access pin number format	Pin only or user num + pin
Expiry Date	Start and Ending expiry date for 5000 users
Big LCD screen	Resolution 128X64, 4 text lines with 16 characters each line.
Editing using LCD interface	YES
Wiegand port	1 input port (selectable WG 26 or 34)
Push button input	1 negative trigger input
Alarm sensor input	1 negative trigger input
Door Output (dry contact)	0.1 - 600 sec, N.O / N.C, max 24V-1A
Alarm Output (open collector)	0.1 - 600 sec, active low output
Reader RF frequency	125KHz or Mifare 13.56 MHz
Reading range	Approx 10cm (4inch)
Date communication	RS485 - 9600 bps (N,8,1)
Power consumption	10-24V, less than 3W
Dimension, weight	128(H) x 96(W) x 35(D), 230 gram

RS485 network connection



TCPIP network connection



AR721U wiegand specification

RF frequency	125KHz
Reading range	7 cm
Power consumption	9 -16V, less than 0.7W
Dimension, weight	81(h) x 43(w) x 18(d) mm, 45 gram

Standalone connection



Accessories



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