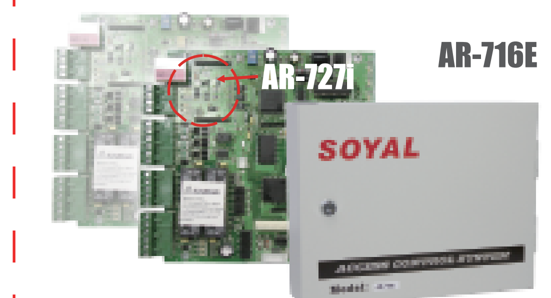
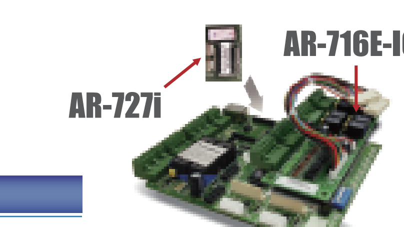
Multi-Door Networking Controller Panel

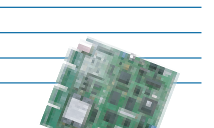
AR-716E



- Lockable housing prevents the violence.
- 2 RS-485 serial ports, each port supports 8 readers.
- 2 Wiegand ports for WG readers.
- 4 DI + 4 RO for various applications.
- Changeable interface, RS-485 or Ethernet.
- Extension relay board with 8 DI + 8 RO.
- Built-in power and RS-485 transmission LED indicators.
- Open-all-doors function for emergency purpose.
- Multi-door anti-pass-back function.
- Support time zone, door group and holiday editing.
- Data retained up to 60 days when the power failure.



Specifications



User Capacity		15,000
Event Log		11,000
Voltage		15-24 VDC
Power Consumption		< 2.5W
Communication Interface		Reader Channel : RS-485*2 Host Channel : RS-485 / Ethernet
Baud Rate	RS-485	9600 bps (N, 8, 1)
	Ethernet	10/100 Base T
Operating Temperature		-20°C to +75°C
Digital Input		4+8 (AR-716E-IO)
Relay Output		4+8 (AR-716E-IO)
Max. RS-485 Reader Supported		16
Max. WG Reader Supported		2
Anti-pass Back		Yes
Door Group		255
Time Zone		63
Editing Interface		PC Software
Dimension (mm)		180(L)x231(W)x62(H)
N.W. (g)		1,840 ± 50
Housing Material		Metal
Others		UPS Function (Battery not included)

Options

Extension Relay Board

AR-716E-IO

- Extension Relay Board for AR-716E Networking Controller
- 8 Sets of Exit Button Input with Photo Isolation
- 8 Sets of Door Relays (Form C)
- Door Relay Release Time setting via SOYAL Software

Serial Device Network Module

AR-727i V2

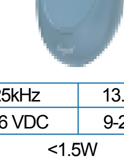
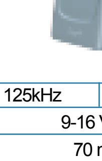
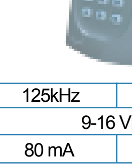
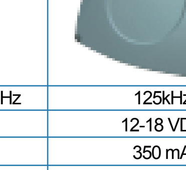
- Built-in Ethernet and TTL serial interface
- TCP/UDP Client / Server , DHCPc , IGMP and ARP supported

Specifications

Converting Interface	10/100 Base T Ethernet↔UART (TTL)
Baud Rate	4800-115200 bps
Voltage	5 VDC
Operation Temperature	-20°C to +75°C
Protocol	TCP/UDP Client / Server , DHCPc , IGMP ARP
Dimension (mm)	46(L)x28(W)x15(H)
N.W. (g)	15± 5
AUTO MDI/MDIX	Yes

125kHz / 13.56MHz Reader

Specifications

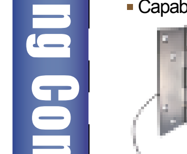
Item Number	AR-737H/U		AR-721U		AR-721K		AR-661U
Product Series							
Frequency	125kHz	13.56MHz	125kHz	13.56MHz	125kHz	13.56MHz	125kHz
Voltage	9-16 VDC	9-24 VDC	9-16 VDC		9-16 VDC		12-18 VDC
Power Consumption	<1.5W		70 mA		80 mA	<1W	350 mA
Communication Interface	RS-485 (737H only), TTL Wiegand (737U only) and ABA-II		WG 26 / 34, ABA-II, ASYNC		WG 26 / 34, ABA-II, ASYNC		WG 26 / 34, ABA-II, ASYNC
Baud Rate	9600 bps / 19200 bps(N, 8, 1)		9600 bps (N, 8, 1)		9600 bps (N, 8, 1)		9600 bps (N, 8, 1)
Operating Temperature	-20°C to +75°C		-20°C to +75°C		-20°C to +75°C		-20°C to +75°C
Compliance (optional)	—	•ISO14443A •ISO15693 •ISO14443A / B+15693	—		—		—
Reading Range	10-20 cm	3-8 cm	10-18 cm	3-8 cm	10-18 cm	3-8 cm	33-60 cm
Read / Write	Read Only	Read / Write	—		—		—
Supported Tags	EM4001 / EM4012	•MIFARE Ultra Light (L10) •MIFARE Standard (S50) •MIFARE Plus (P60)	—		—		—
Keypad	No		No		Yes		No
Indicator	1 bi-color LED and 1 beeper		1 bi-color LED and 1 beeper		1 bi-color LED and 1 beeper		3 LED and 1 beeper
Waterproof	Yes (Optional)		Yes (Optional)		No		Yes (Optional)
Color	Gray		Gray / Silver		Gray / Silver		Gray
Dimension (mm)	113(L)x71(W)x36(H)		81(L)x43(W)x18(H)		111(L)x77(W)x26(H)		228(L)x228(W)x38(H)
N.W. (g)	80 ± 10		40 ± 5		90 ± 10		1,000 ± 50
Housing Material	ABS		ABS		ABS		ABS

· Networking Controller · Reader

MIFARE Door Lock/Master card

AR-323D

- Built-in Calendar
- Available for Stand-Alone and Networking System Built-in
- SOR MIFARE Advantages
- Door Alarm Prompt (Unclosed and Forced-Open)
- Capability to Unlock by Mechanical Key



Door Transfer Hinge

AR-321DH4

- 32AWG, 4-pair 12VDC / 320mA,45"x"4.5 or 4.5"x4"

Specifications

	US Type	EU Type
Lock Body Type	US Type	EU Type
Door Thickness	35mm~45mm	25mm~35mm
Door Hands	RH/RHR/LH/LHR (Optional)	RH/LH(Optional)
Weight	3.9kg	3.6kg
Material	Metal	
Operating Environment	-20℃ ~+ 50℃	
Operating Humidity	15% ~ 95%RH	
Unlock	Smart Card, Mechanical Key	
Frequency	MIFARE 13.56MHz (ISO14443A)	
Reading Range	0~2cm	
Respond Time	<1.5 sec.	
Low Battery Voltage Warning	Yes (<5.3VDC)	
Low Battery Voltage Solution	Capability to connect an external 9VDC power supply	
Indicators	One bi-color LED One buzzer Conditions： 1.Green LED + 1 beep：operation ok 2.Green LED + 7 beeps after card presented：inside latch is locked up 3. Red LED + 2 beeps：operation error 4. 5 beeps after card presented：low battery warning	
System	Stand-Along	Networking
Supply Voltage	6VDC (LR6-AA x 4, 2500mAH)	12VDC (Supplied via AR-321DAX1)
Power Consumption	<40uA (Idle state)	<50mA
Lifetime of Battery	Approx. 8 months (6 times operation per day)	-
Accessory	Master Card x 2 Battery LR6-AA x 4	Networking module x 1

Specifications

Door Bell PB AR-PB-321	Input	V+	12VDC/100mA
		V-	0V
		Private LED	Low Active / 20mA max.
		Cleanup LED	Low Active / 20mA max.
	Output	Bell Relay	Form A Clean Contact 24VDC/2A
Service Panel AR-PB-323	Input	V+	12VDC
		V-	0V
		Private Button	Internal Piezo Button
		Cleanup Button	Internal Piezo Button
	Output	Private LED Driver	Open Collect 12VDC/50mA max.
		Private Relay	Form A Clean Contact 24VDC/2A
		Cleanup LED Driver	Open Collect 12VDC/50mA max.
		Cleanup Relay	Form A Clean Contact 24VDC/2A

Advantages of SOR

1. Data Protection for Key A/B
2. 6-layer Managing Structures
3. User ID Assignable
4. Expiration Setup
5. Off-line Operation Available
6. Global Access Control
7. Built-in Command within Cards

Smart Card Reader & Holder

- Apply to various automation devices such as air conditioner, TV, door lock and other power supply equipment.
- Allows applying to stored-value system.
- Support both networking and Stand-Alone operation mode.
- Support SOYAL Open System Rules (SOR)

SOR SOYAL MIFARE

Specifications

AR-321W

Frequency	13.56MHz
User Capacity	1024 / Unlimited (SOR only)
Voltage	12-24 VDC (USB powered)
Power Consumption	<1W
Communication Interface	RS-485
Operation Temperature	-20°C to +75°C (0-90% non-condensing)
Compliance	• ISO14443A • ISO15693 • ISO14443A/B+15693
LED	White LED x2 (Status) Green LED (OK) Red LED (Error)
I / O	4 DI & 1 Relay Form C 3 Transistor outputs (open collector)
Color	Silver / White
Dimension (mm)	90(L)x86(W)x15(H)
N.W. (g)	100 ± 10
Housing Material	ABS

Programmer

The AR-737P is a programmer for MIFARE Smart Card System, designed to improve read / write performance of MIFARE applications. It can be applied in various fields such as access control and stored-value systems.Choosing the AR-737P is believed to create more opportunities for your business.

Specifications

AR-737P

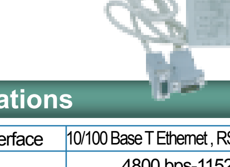
Frequency		13.56MHz
Voltage		5 VDC (USB powered)
Power Consumption		<1.5W
Communication Interface	RS-232	Product P/N AR-737PDX2N21
	USB	Product P/N AR-737PDX8N21
Baud Rate	RS-232	9600 bps (N, 8, 1)
	USB	USB 2.0
Operating Temperature		-20°C to +75°C (0-90% non-condensing)
Compliance (optional)		• ISO14443A • ISO15693 • ISO14443A/B+15693
Supported Tags		MIFARE 1 (IC50) MIFARE Ultra Light (L10) MIFARE Pro (IC70)
Indicators		1 bi-color LED and 1 beeper
Color		Gray
Dimension (mm)		113(L)x71(W)x36(H)
N.W. (g)		150 ± 10
Housing Material		ABS
Others		SOR Supported

Converter

Serial Device Network Server

AR-727CM

- Built-in RS-232, RS-485 & Ethernet interface (AR-727i module)
- Built-in power and data transmission LED indicator for signal state



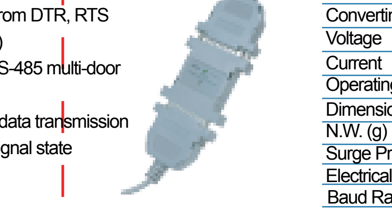
Specifications

Converting Interface	10/100 Base T Ethernet , RS-232 , RS-485
Baud Rate	4800 bps-115200 bps
Voltage	9-24 VDC
Power Consumption	<2W
OperatingTemperature	-20°C to +75°C
Protocol	TCP/UDP Client / Server, DHCPc, IGMP, ARP
Dimension (mm)	110(L)x62(W)x24(H)
N.W. (g)	240 ± 10
Housing Material	Metal

Isolated RS-232/RS-485 Converter

AR-701CM

- Automatic data direction control
- RS-232 powered from DTR, RTS (activation needed)
- Up to 32 units in RS-485 multi-door operation
- Built-in power and data transmission LED indicator for signal state



Specifications

Converting Interface	RS-232↔RS-485
Voltage	9-16 VDC
Power Consumption	<1.5 W
Operating Temperature	-20°C to +75°C
Effective Range	2M(RS-232) / 300M(RS-485)
Surge Protection	16KV ESD
Optional Isolation	2KV
Dimension (mm)	64(L)x55(W)x16(H)
N.W. (g)	40 ± 5

USB to RS-485 Converter

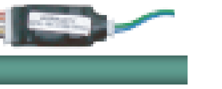
AR-321CM

Specifications

Item Number	AR-321CM
Converting Interface	USB↔RS-485
Voltage	5 VDC
Current	Max. 200mA
Operating Temperature	-20°C to +75°C
Dimension (mm)	79(L)x37(W)x16.4(H)
N.W. (g)	50
Surge Protection	3KV
Electrical Isolation	2500VRMS
Baud Rate	2400~57600

TTL to RS-485 Signal Converter

AR-321L485



Specifications

Converting Interface	TTL↔RS-485
Voltage	9-15 VDC
Current	Max. 100mA
Operating Temperature	-20°C to +75°C
Effective Range	300M
Dimension (mm)	52(L)x14(W)x11(H)
N.W. (g)	14

· SOR MIFARE · Converter SOR SOYAL MIFARE

Programmable Controller

AR-401E 2-Scan Channel Processor Module

AR-401DI16 16-Channel Digital Input Module

AR-401RO16 16-Channel Relay Output Module

Distributed Control I/O Systems

The AR-401E is a programmable controller that provides an optimum solution for access and industrial integrating in centralized and distributed system architectures. The AR-401 offers I/O event control and user friendly programming development tools fulfills PLC requirements in access system.

Specifications

Item Number		AR-401E	AR-401DI16	AR-401RO16
Event Log		10,000	—	—
Voltage		9-24 VDC		
Power Consumption		1W		12W
Communication Interface		RS-485 / Ethernet (optional)		
Baud Rate	RS-485	9600 bps / 19200 bps(N, 8, 1)		4800 bps / 9600 bps / 19200 bps(N, 8, 1)
	Ethernet	10/100 Base T		
Channel		2 RS-485 Scan Channels 1 RS-485 for Host (replaceable to Ethernet Module)	16 N.C. Contact Input Loop Condition Open/Close/Break	16 Form C Relay Output
LED Indicator		Power, Tx / Rx	Power, TX/RX,Input: Close/ Open/ Break Network :Link/ACT/Busy	Power, Tx / Rx, Relay On / Off
Data Capacity		8M Bytes SDRAM Memory 60 Days Memory Backup	—	—
Remote IO Capacity		512 I/O	—	—
Virtual IO Capacity		512	—	—
Sequential Step		2048	—	—
Real Time Clock		Yes	—	—
Dimension (mm)		97(L)x44(W)x180(H)		
N.W. (g)		600 ± 50		
Housing Material		Metal		

Power Supplier

Specifications

Item Number	Input Voltage	Output Voltage	Dimension (mm)
BP-W12-1000-EO (EO)	100-240 VAC, 50 / 60 Hz	12 VDC,1000 mA	65(L)x51(W)x66(H)
BP-W12-1000-US2 (US)	100-240 VAC, 50 / 60 Hz, 0.3A	12 VDC,1000 mA	77(L)x45(W)x26.5(H)
BP-W15-2400 (Optional)	100-240 VAC, 50 / 60 Hz, 0.7A	15 VDC, 2400 mA, 36VA	97(L)x46(W)x34(H)

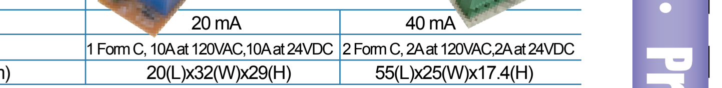
Fingerprint Device

Specifications

Item Number		AR-821EF (DO/MT)	
Product Series		9000 DO	9000 MT
Frequency		125kHz	13.56MHz
User Capacity		10,000	
Event Log		11,000	
Voltage		9-24 VDC	
Power Consumption		<5W	
Communication Interface		RS-485 / Ethernet (optional)	
Baud Rate	RS-485	9600 bps (N, 8, 1)	
	Ethernet	10/100 BaseT	
Operating Temperature		-20°C to +75°C	
Compliance (optional)		—	•ISO14443A •ISO15693 •ISO14443A/B + 15693
Door Relay Time		0 , 0.1 - 600 sec.	
Alarm Relay Time		0 , 1 - 600 sec.	
Aux. WG Port		WG 26/34, ABA-II	
Lift Control		32 stops / 5000 users	
Door Group		255	
Time Zone		63	
Editing Interface		Controller / PC Software	
Reading Range		8-15 cm	3-8 cm
Color		Gray	
Real Time Clock		Yes	
Housing Material		ABS	
LCD Panel (pixel)		128*64 (4 line messages,16 characters each line)	
Dimension (mm)		132(L)x144(W)x102(H)	
N.W. (g)		460 ± 10	
Access Mode	Check FP	Fingerprint Only	
	No Check FP	Card only / Card + FP / PIN + FP / Card + PIN + FP	
Fingerprint Sensor		Optical Sensor (9000 DO)	Capacitive Sensor (9000 MT)
Fingerprint Modual's CPU		400 MHz DSP	
FER		< 0.1%	
Enrollment time		800 msec	500 msec
1:1 Verification time		800 msec	500 msec
1:1000 Identification time		970 msec	650 msec
Image size		384 Bytes	
Fingerprint capacity		2250~4500(Deptnds on enrolled 1 or2 FP per user)	
Encryption		256 bit AES (fingerprint data protection)	
Size (mm)		63(L) x 43(W) x 10(H)	

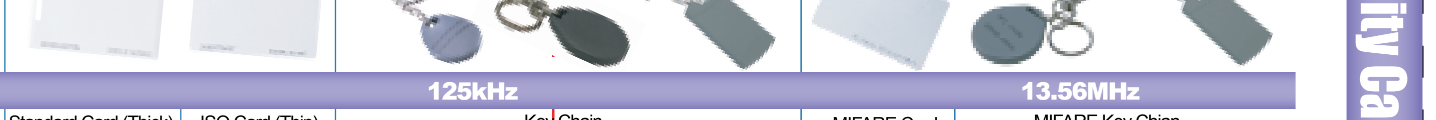
Relay Output Module

Specifications



Item Number	AR-821RB	AR-829RB
Voltage	12 VDC	
Operating Temperature	-20°C to +60°C	
Current	20 mA	40 mA
Output Contact	1 Form C, 10A at 120VAC,10A at 24VDC	2 Form C, 2A at 120VAC,2A at 24VDC
Dimension (mm)	20(L)x32(W)x29(H)	55(L)x25(W)x17.4(H)

Proximity Card / Tag



Specifications

		125kHz					13.56MHz		
Card / Key Chain		Standard Card (Thick)	ISO Card (Thin)	Key Chain			MIFARE Card	MIFARE Key Chian	
Item No	Read	AR-TAGCT1R50	AR-TAGCI1R50	AR-TAGK11R20	—	AR-TAGK61R20	—	—	—
	Read Write	AR-TAGCT1W50	AR-TAGCI1W50	—	AR-TAGK31W20	AR-TAGK61W20	AR-TAGCI3W50	AR-TAGK33W20	AR-TAGK63W20
Dimension (mm)		54(L)x86(W)x1.8(D)	54(L)x86(W)x0.8(D)	37(L)x30(W)x7.5(D)	39(L)x35(W)x6.5(H)	45(L)x26(W)x5.2(H)	54(L)x86(W)x0.8(D)	39(L)x35(W)x6.5(H)	45(L)x26(W)x5.2(H)
Data Format		EM4001 / 4012 SOYAL Format					MF1		
Frequency		125 kHz					13.56 MHz		
Transponder Type		Passive (non-battery operated)							
Operating Temperature		-30°C to +75°C							

Product Selection and Part Number (How to Order)

AR - TAG X X X X X X

Model No. / Frequency / Read / RW / Color / Others

Model	C Card	T Thick I ISO P Paper
	T Tag	1 12mm 2 16mm 3 20mm 4 25mm 5 30mm
	K Key Chain	1 Sharp1(small) 2 Sharp2 3 Sharp3(Large)
Frequency	1 2 13.56MHz(Ultra Light)	3 13.56MHz(MF1)+Stored-Value 5 13.56MHz(4K) 7 14443A/B+15693 4 13.56MHz(SL1) 6 14443A/B
Read/RW	R Read Only W Read + Write	
Color	1 Silver 2 Gray 3 Blue 4 Black 5 Ivory 6 OEM	

· Peripheral · Fingerprint Device · Programmable Controller · Proximity Card / Tag

Networking & Stand-alone Controller / Reader

Specifications

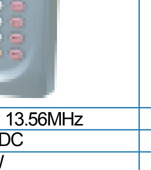
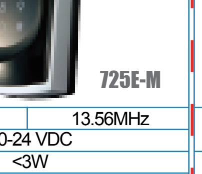
Item Number		AR-321H	AR-721H		AR-725H / AR-725H-M		AR-757H		AR-327H	AR-727H	
Product Series					725H-M						
Frequency		125kHz	125kHz	13.56MHz	125kHz	13.56MHz	125kHz	13.56MHz	125kHz	125kHz	13.56MHz
Voltage		9-16 VDC	9-16 VDC		10-24 VDC		9-16 VDC		10-24 VDC	10-24 VDC	
Power Consumption		<3W	<3W		<3W		<3W		<3W	<3W	
Communication Interface		RS-485	RS-485		RS-485		RS-485		RS-485	RS-485	
Baud Rate		9600 bps (N, 8, 1)	9600 bps (N, 8, 1)		9600 bps (N, 8, 1) ,10/100 Base T		9600 bps (N, 8, 1)		9600 bps (N, 8, 1)	9600 bps (N, 8, 1)	
Operating Temperature		-20°C to +75°C	-20°C to +75°C		-20°C to +75°C		-20°C to +75°C		-20°C to +75°C	-20°C to +75°C	
Digital Input		Egress Button / Door Sensor	Egress Button / Door Sensor		2 Egress Button /2 Door Sensor		Egress Button / Door Sensor		Egress Button / Door Sensor / Arming Switch	Egress Button / Door Sensor / Arming Switch	
Compliance (optional)		—	—	•ISO14443A •ISO15693 •ISO14443A/B + 15693	—	•ISO14443A •ISO15693 •ISO14443A/B + 15693	—	•ISO14443A •ISO15693 •ISO14443A/B + 15693	—	—	•ISO14443A •ISO15693 •ISO14443A/B + 15693
Relay Output		Door Relay	Door Relay		Door Relay		Door Relay / Alarm Relay		Door Relay / Alarm Relay	Door Relay / Alarm Relay	
Door Relay Time		0 , 0.1-600 sec.	0 , 0.1-600 sec.		0 , 0.1-600 sec.		0 , 0.1-600 sec.		0 , 0.1-600 sec.	0 , 0.1-600 sec.	
Alarm Relay Time		0, 1 - 600 sec.	0, 1 - 600 sec.		0, 1 - 600 sec.		0, 1 - 600 sec.		0, 1 - 600 sec.	0, 1 - 600 sec.	
Tamper Resist. Switch		Limit Switch (Form C)	Limit Switch (Form C)		Limit Switch (Form C)		Limit Switch (Form C)		Limit Switch (Form C)	Limit Switch (Form C)	
User Capacity	M4 /M8	1,024	1,024		1,024		1,024		1,024	1,024	
	M6	65,535	65,535		65,535		65,535		65,535	65,535	
Event Log	M4 /M8	1,200	1,200		1,200		3,000		1,200	1,200	
	M6	—	—		—		—		—	—	
Aux. WG Port		WG 26/34, ABA-II	WG 26/34, ABA-II		WG 26/34, ABA-II		WG 26/34, ABA-II		WG 26/34, ABA-II	WG 26/34, ABA-II	
Anti-pass-back (M4 /M8)		1,024	1,024		1,024		3,000		1,024	1,024	
Lift Control (M4 /M8)		32 stops, 1,024 users	32 stops, 1,024 users		32 stops, 1,024 users		32 stops, 1,024 users		32 stops, 1,024 users	32 stops, 1,024 users	
Proximity Reading Range		3-5cm	10-18cm	3-8cm	10-18cm(725H) 7-14cm(725H-M)	3-8cm(725H) 2-5cm(725H-M)	10-18cm	3-8cm	3-5cm	10-18cm	3-8cm
Serial Out		TTL (4800 bps, N, 8, 1) (shared with alarm relay)	TTL (4800 bps, N, 8, 1) (shared with alarm relay)		TTL (4800 bps, N, 8, 1) (shared with alarm relay)		TTL (4800 bps, N, 8, 1) (shared with alarm relay)		TTL (4800 bps, N, 8, 1)	TTL (4800 bps, N, 8, 1)	
Real Time Clock		Yes	Yes		Yes		Yes		Yes	Yes	
LCD Panel (pixel)		—	—		—		—		128*64 (4 line messages, 16 characters each line)	128*64 (4 line messages, 16 characters each line)	
Door Bell Button		No	No		No		Yes		No	No	
Transistor Output		Duress/Alarm/Arming LED	Duress/Alarm/Arming LED		Duress/Alarm/Arming LED /2nd Door Open		Duress/Arming LED /Door Bell		Duress/Arming LED /Card Present	Duress/Arming LED /Card Present	
Weatherproof		IP54	—		IP54		IP54		IP54	IP54	
Dimension (mm)		114(L)x78(W)x28(H)	111(L)x77(W)x26(H)		125(L)x89(W)x30(H)		126(L)x91(W)x32(H)		140(L)x92(W)x33(H)	126(L)x91(W)x46(H)	
Indicator		5 bi-color LED and 1 beeper	1 bi-color LED and 1 beeper		1 bi-color LED and 1 beeper		3 LED and 1 beeper		6 bi-color LED and 1 beeper	1 bi-color LED and 1 beeper	
Keypad		Stainless Steel	Rubber		Touch Panel		Rubber		Stainless Steel	ABS	
Housing Material		Zinc Alloy	ABS		Zinc Alloy + PC RESIN		ABS		Zinc Alloy	ABS	
Color		Chrome	Gray / Silver		Black/Gray/Silvery/Blue/Red/ Orange/White/Green/Yellow		Gray / Silver		Chrome	Gray	
N.W. (g)		340± 10	100 ± 10		140 ± 10 (725H) 470± 10 (725H-M)		155 ± 10		430 ± 10	200 ± 10	

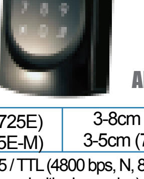
Options

Access Mode

- M4 - - - - Card only, Card+9-digit PIN, 9-digit PIN Only (9-digit PIN = 5-digit User Address + 4-digit Individual PIN)
- M6 - - - - Card only, Card+4-digit Pubic PIN , 4-digit Public PIN Only
- M8 - - - - Card only, Card + 4-digit Individual PIN , 4-digit PIN Individual Only

Specifications

Item Number	AR-829E		AR-725E / AR-725E-M	
Product Series			 725E-M	
Frequency	125kHz	13.56MHz	125kHz	13.56MHz
Voltage	9-24 VDC		10-24 VDC	
Power Consumption	<5W		<3W	
Communication Interface	RS-485		Ethernet (AUTO MDI/MDIX) / RS-485	
Baud Rate	9600 bps (N, 8, 1)		9600 bps (N, 8, 1) ,10/100 Base T	
Operating Temperature	-20°C to +75°C		-20°C to +75°C	
Digital Input	Egress Button / Door Sensor / Arming Switch		2 Egress Button / 2 Door Sensor	
Compliance (optional)	—	• ISO14443A • ISO15693 • ISO14443A/B + 15693	—	• ISO14443A • ISO15693 • ISO14443A/B + 15693
Relay Output	Door Relay Output / Alarm Relay Output		Door Relay	
Door Relay Time	0 , 0.1 - 600 sec.		0 , 0.1-600 sec.	
Alarm Relay Time	0 , 1 - 600 sec.		0, 1 - 600 sec.	
Tamper Resist. Switch	Limit Switch (Form C)		Limit Switch (Form C)	
User Capacity	15,000		16,000(M4/M8) / 65,535(M6)	
Event Log	8,000		30,000	
Aux. WG Port	WG 26/34, ABA-II		WG 26/34, ABA-II	
Anti-pass-back	15,000		16,000	
Lift Control	64 stops / 15000 users		32 stops, 16,000 users	
Access mode	Card Only / Card or PIN / Card+PIN		Card Only / Card or PIN / Card+PIN	

Item Number	AR-829E		AR-725E / AR-725E-M	
Product Series			 AR-725E	
Proximity Reading Range	8-15 cm	3-8 cm	10-15cm (725E) 5-9cm (725E-M)	3-8cm (725E) 3-5cm (725E-M)
Serial Out	TTL (4800 bps, N, 8, 1)		RS-485 / TTL (4800 bps, N, 8, 1) (shared with alarm relay)	
Editing Interface	Controller / PC Software		Controller / PC Software	
Door Group	255		255	
Time Zone	63		63	
Real Time Clock	Yes		Yes	
LCD Panel (pixel)	128*64 (4 line messages, 16 characters each line)		—	
Transistor Output	Duress / Arming LED / Card Present		Duress/Alarm/Arming LED/2nd Door Open	
Weatherproof	No		IP54	
Dimension (mm)	128(L)x96(W)x35(H)		125(L)x89(W)x30(H)	
Indicator	6 bi-color LED and 1 beeper		1 bi-color LED and 1 beeper	
Keypad	Rubber		Touch Panel	
Housing Material	ABS		Zinc Alloy + PC RESIN	
Color	Gray / Silver		Black/Gray/Silvery/Blue/Red/ Orange/White/Green/Yellow	
N.W. (g)	230 ± 10		140 ± 10(725E) / 470± 10(725E-M)	

· Controller+Reader