RAYTEL ACCESS CONTROL PRODUCTS

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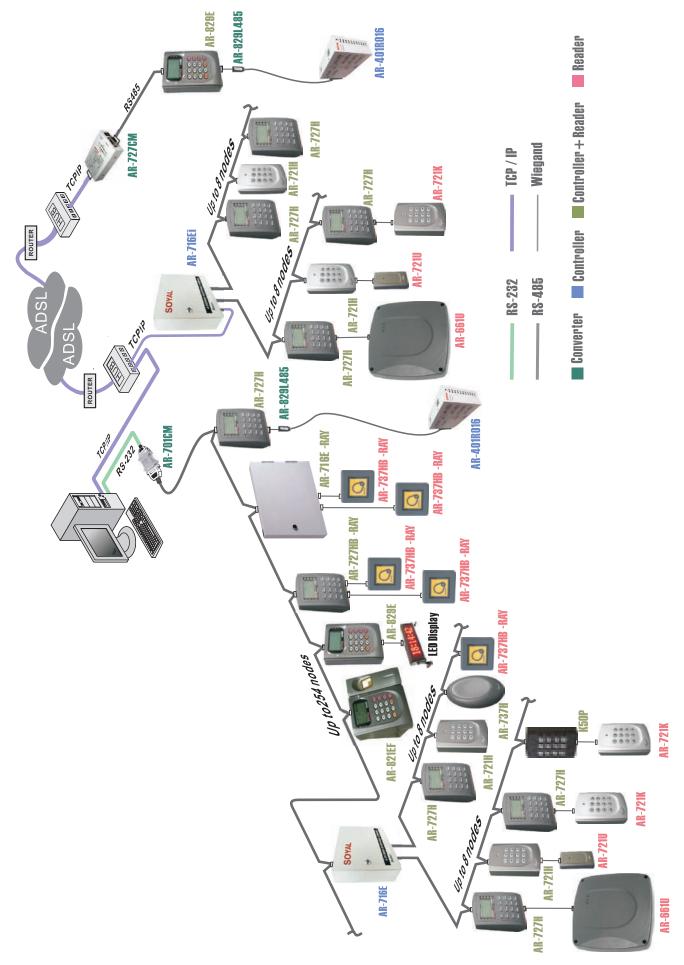
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helping to make communities safer



SYSTEM ARCHITECTURE



CONTENTS

Туре No.	Application	Page
AR-716E	Four - Sixteen Door Master Controller	2/3
AR-727HB-RAY	Two Door Controller (RS485)	4/5
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AR-721KP-B	Two Adjacent Door Keypad Controller	12/13
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AR-401E	Programmable Controller	16/17
AR-721U	Wiegand Reader	18/19
AR721KBX	Wiegand Reader/Keypad	18/19
AR-737U/H	Wiegand/RS485 Reader	18/19
AR-661U	Long Range Wiegand Reader	18/19
AR-737HB-RAY	RS485 Vandal Resistant Readers	20/21
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AR-PB	Illuminated Piezo Push Buttons	24/25
Various	Electromagnetic Locks	26/27
Profile	Company Profile and Product Range	28/IBC

Please Note

Whilst every effort has been made to ensure the accuracy of this Catalogue at the time of publication, we reserve the right to supply equipment in line with current design specifications and recommend that critical parameters are checked at the ordering stage.

NETWORKING CONTROLLER



Networking Controller AR-716E (4 door relays)



Model:

Serial Device Network Module **AR-727i Extension Relay Board** AR-716E-IO (+8 door relays)

- 2 RS-485 serial ports each port supports 8 readers.
- 2 Wiegand ports which enable connection to 2 WG readers.
- Supports up to 16 doors with reader/controllers with integral relays (12 with reader only) and up to 254 can be linked to a PC host.
- Data retained for 60 days in the event of a power failure.
- Open-all-doors function for emergency purposes.
- Built-in power and RS-485 transmission LED indicator for signal state.
- Ethernet interface for LAN or WAN networking with addition of AR727i.
- Built-in watchdog to prevent the system from locking up.
- Multi-door anti-pass-back.



AR-737HB-RAY Standard or Vandal Resistant Reader (No built-in lock relay)

AR-737H Reader Only (In) (No built-in lock relay)

Wiegand Reader (In) AR-727H Controller/Reader (out)

AR-721U

for anti-pass-back function (Built -in lock relay)

RAYTEL SECURITY SYSTEMS (IIII)

AR-721U

Wiegand Reader (In) Options

A or B+C



NETWORKING CONTROLLER



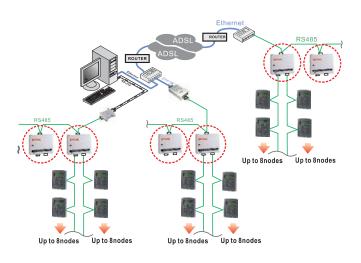
AR-716E/AR-716Ei

*AR-716Ei = AR-716E + AR-727i



User Capacity	15,000
Event log	11,000
Power Requirement	15-24VDC
Power Consumption	< 2.5W
Communication Interface	Reader Channel: RS485 x 2
	Host Channel: RS485 / Ethernet
Baud Rate: RS485	9600 bps (N, 8, 1)
Baud Rate: Ethernet	10M
Environment	-20°C to +75°C
DI Input Max. Quantity	4+8 (AR-716E-IO)
Relay Output / Max. Quantity	7A 30VDC / 4+8 (AR-716E-IO)
Max. RS485 Reader Supported	16
Max. WG Reader Supported	2
Anti-pass Back	Yes
Door Group	255
Time Zone	63
Editing Mode	PC Software
Dimensions (mm)	180(H) x 231(W) x 62(D)
Weight (g)	1,840 ± 50
Housing Material	Metal
Others	UPS Function (No Battery Included)

System Architecture



Serial Device Network Module AR-727i



- Built-in Ethernet and TTL serial interface.
- TCP/IP, DHCP, ICMP and ARP supported.

Specification

Converting Interface	10 Base T Ethernet - UART (TTL)
Baud Rate	4800bps - 57600bps
Power Requirement	5VDC
Power Consumption	< 0.5W
Environment	-20°C to +75°C
Protocol	TCP/IP, ICMP, DHCP
Dimensions (mm)	45(H) x 28(W) x 14(D)
Weight (g)	15
Housing Material	-

Expanding Relay Board AR-716E-IO (+8 Door)



RS485 TWO DOOR CONTROLLER

With built in programming reader.

Networking & Stand-alone Controller for Card or Token Proximity Reader AR-727HB-RAY

- 1 RS485 port for 2-door control.
- Upto 254 controllers may be networked to host PC.
- Cable runs up to 1,000 meters between controller and reader.
- Built-in reader and LCD display for programming purposes.
- User friendly programming.
- Two built-in lock relays.
- Anti-tamper contact.
- Built-in watchdog to prevent the system from locking up.
- Anti-passback memory 1024.
- Event log (capacity 1,200) preserved for up to 10 years.
- Weatherproof.

The AR-727HB-RAY is an extremely versatile controller/reader operating either as a standalone controller or as a network controller as one of up to 254 controllers operating via an RS485 connection to a host PC.

The RS485 port of the AR-727HB-RAY can be connected to two remote RS485 readers to provide entry control for two doors with exit buttons for egress or for one door with two readers for anti-passback. The RS485 connection enables long cable runs (up to 1000 metres) to be used between reader and controller.

The controller has a built-in proximity reader and LCD display for programming. It is also available in a lockable metal case complete with a 3 amp power supply (AR-716E-RAY).

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RAYTEL SECURITY SYSTEMS LTD

The readers that can be used with this controller are the AR-737H and the DDA compliant AR-737HB-RAY. There are two lock relays in the controller.

Note: This controller cannot be used as a sub-controller connected to the standard AR-716E



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4

RS485 TWO DOOR CONTROLLER With built in programming reader.



Networking & Stand-alone Controller for Card or Token Proximity Reader

Specification		
Mode No.	M4	
	(Stand-alone or Networked)	
RF Frequency	125KHz / 150KHz	
User Capacity	1,024	
Event Log	1,200	
Voltage	10-24VDC	
Power Requirement	< 3W	
Communication Interface	RS485	
Baud Rate	9600bps (N, 8, 1)	
Environment	−20 to +75°C	
DI Input	2 Egress Button	
DO Output	Arming LED / 2 Door Relay Output	
Door Relay / Time	3A 30VDC / 0-600 sec max.	
Anti-pass-back	Yes	
Program Interface	Controller / PC Software	
Proximity Reading Range	5-8cm (125KHz) / 5-8cm (150KHz)	
Weatherproof	IP54	
Real Time Clock	Yes	
Colour	Dark Pearl Grey	
Dimensions (mm) AR727HB-RAY	126(H) x 91(W) x 46(D)	
Weight (g) AR727HB-RAY	330±10	
Housing material	ABS	
LCD Panel (pixel)	128 x 64 (4 line messages	
	16 characters each line)	

• Stand-Alone • Networking • 125K • 150K • Weatherproof



AR-727HB-RAY or AR-716E-RAY Options

- Standalone controller with two readers and two exit buttons for control of two doors without anti-passback facility (Readers: 2 x AR-737H or 2 x AR-737HB-RAY).
- Standalone controller with two readers for control of one door with anti-passback facility (Readers: 2 x AR-737H or 2 x AR-737HB-RAY).
- One of up to 254 controllers as network node connected to a host PC, with the same reader options as in standalone mode.

Image: state state

AR-737HB-RAY Readers



See RS485 Readers page for reader dimensions.

Dimensions: AR-727HB-RAY and AR-716E-RAY

Networking & Stand-alone Controller Networking Reader AR-727H (125K/MIFARE)

- Controller with built-in reader and door relay.
- Weatherproof for external installation.
- User friendly editing interface supported by LCD panel.

applications

in

- TTL serial port for connecting external printer, LED etc.
- One built-in lock relay.
- Built-in anti-tamper function.
- Built-in watchdog to prevent the system from locking up.
- An extra WG port which enables connection to another WG reader (for exit or anti-pass-back).
- Easily integrated with Soyal or other access control systems.
- Event log preserved for up to 10 years.



Stand-alone Operation

a Wiegand reader.

-with local access management information via a printer and anti-pass back with

-For remote management via an RS485 link & connector AR-701CN

RS485

(50m Max)

Wiegand Reader (In/Out)

Host Only

Controller / Reader (Out)

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Ready

Connected to Controller AR716E -For up to 15,000 Users.

RAYTEL SECURITY SYSTEMS

Multi-Functions



Networking & Stand-alone Controller Networking Reader

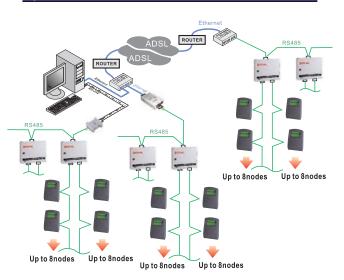
Specification			
Mode No.	M4	M6	M8
	(Stand-alone or	(Stand-alone)	(Stand-alone or
	Networked)		Networked)
RF Frequency	125KHz / 13.56MHz		
User Capacity	1,024	65,536	1,024
Event Log	1,200	-	1,200
Power Requirement		10-24VDC	
Power Consumption		< 3W	
Communication Interface		RS485	
Baud Rate	ç	600bps (N, 8, 1)
Environment		-20 to +75°C	
DI Input	Egress Button	/ Door Sensor /	Arming Switch
Compliance	ISO1	4443A (13.56M	1 only)
Door Relay / Time	3A 30Vdc N/O, N/C, COMM / 0-600 sec max.		
Alarm Relay / Time	3A 30Vdc N/O	, N/C, COMM /	0-600 sec max
Tamper Resist. Switch	Lin	nit Switch (From	C)
Aux. WG Port	WG 2	6/34, ABA-II, OI	MRON
Anti-pass Back	Yes	-	Yes
Lift Control	(32 Stops,	-	(32 Stops,
	1024 users)		1024 users)
Editing Interface	Controller /	Controller	Controller /
	PC Software		PC Software
Proximity Reading Range	10-18cm	(125K) / 3-8cm	(13.56M)
Serial Out	TTL	. (4800bps, N, 8	3, 1)
Colour	Dark Pearl Grey / Navy		
Dimensions (mm)	126(H) x 91(W) x 46(D)		
Weight (g)	200±10		
Housing material	ABS		
LCD Panel (pixel)	128 x 64 (4 line messages		
	16 characters each line)		
Access Mode	Card Only	Card Only	Card Only
	Card or PIN ••	Card or PIN	Card or PIN
	Card + PIN	Card + PIN	Card + PIN

 Under M4, the PIN here actually refers to User Address + PIN which is designed to improve security by asking users to key in their individual user address prior to PIN.

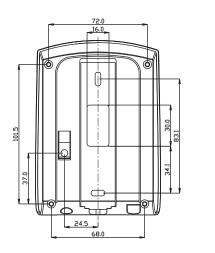
- Stand-Alone Networking 125K Mifare
- Weatherproof

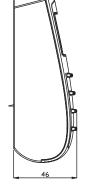


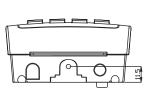
System Architectur



Dimensions







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See Wiegand Reader page for reader dimensions.

Networking & Stand-alone Controller Networking Reader AR-721H (125K/MIFARE)

- Controller with built-in reader and door relay.
- 11 sets of time zone, different time zone for each user.
- Up to 120 holidays that can be set in a year starting from the editing date.
- TTL serial supported for connecting an external printer, LED etc.
- Built-in anti-tamper function.
- Built-in watchdog to prevent the system from locking up.
- An extra WG port which enables connection to another WG reader (for exit or anti-pass back only).
- Easily integrated with Soyal or other access control systems.
- Event log saved for up to 10 years.



Connected to a PC

-For remote management via an RS485 link & connector AR-701CM.



(50m Max) Wiegand

(Out)

RS485 Host Only

Controller / Reader



Stand-alone Operation -with local access management information via a printer.



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Networking & Stand-alone Controller Networking Reader

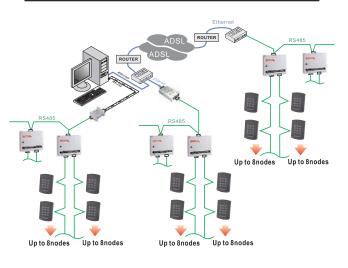
Specification			
Mode No.	M4	M6	M8
	(Stand-alone or	(Stand-alone)	(Stand-alone or
	Networked)		Networked)
RF Frequency	12	25KHz / 13.56M	Hz
User Capacity	1,024	65,536	1,024
Event Log	1,200	-	1,200
Power Requirement		9-16VDC	
Power Consumption		< 3W	
Communication Interface		RS485	
Baud Rate	g	600bps (N, 8, 1)
Environment		-20°C to +75°C	;
DI Input	Egress	Button / Door	Sensor
Compliance	ISO1	4443A (13.56N	l only)
Door Relay / Time	2A 30VDC N/O, N,C, Comm / 0-600 sec Max		
Alarm Relay / Time	Transistor Op	en Collector / 0	-600 sec Max
Tamper Resist. Switch	Lin	nit Switch (From	C)
Aux. WG Port	WG 2	6/34, ABA-II, OI	MRON
Anti-pass Back	Yes	-	Yes
Lift Control	(32 Stops,		(32 Stops,
	1024 users)		1024 users)
Editing Interface	Controller /	Controller	Controller /
	PC Software		PC Software
Proximity Reading Range	10-18cm	(125K) / 3-8cm	(13.56M)
Serial Out	TTL	. (4800bps, N, 8	8, 1)
	(shared with alarm relay)		
Indicator	A bi-colour LED and a beeper		
Colour	Dark Pearl Grey (Silver - special order only)		
Dimensions (mm)	111(H) x 77(W) x 26(D)		
Weight (g)	100±10		
Housing material	ABS		
Access Mode	Card Only	Card Only	Card Only
	Card or PIN ••	Card or PIN	Card or PIN
	Card + PIN	Card + PIN	Card + PIN

 Under M4, the PIN here actually refers to User Address + PIN which is designed for more security by asking users to key in their individual user address prior to PIN.

• Stand-Alone • Networking • 125K • Mifare

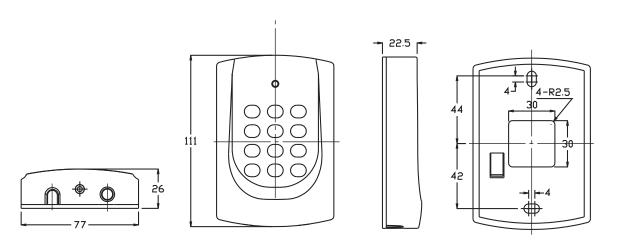


System Architecture



9

Dimensions



SINGLE DOOR KEYPAD ACCESS CONTROLLER

Networking & Stand-alone Keypad Access Controller K50i Series

- Programmable Common Code or Individual User Codes
- Standalone or Networkable
- RS 485 port for PC Host
- Anti-pass back with slave Wiegand keypad AR-721KBX
- Event Log
- Tamper switch
- Duress Code
- Adjustable Alarm and Door Relay Times
- Waterproof to IP65
- Real Time Clock
- Standard or Vandal Resistant Format
- AC/DC operating voltage 9-16 volts

The K50i series Access Controller is a fully encapsulated controller with a robust, engraved metal keypad and either a plastic cover for surface mounting or a stainless steel vandal resistant case for surface mounting and a stainless steel front plate that fits onto a standard double gang electrical back box for flush mounting.

The unit has three modes of working, M4, M6 and M8 with M8 being the default mode. In the default mode, M8, the unit memory can hold up to 1024 codes. The event log can hold 1200 events. Anti-pass back can be accomplished by connecting a Wiegand keypad, AR721KBX to the K50i. The controller can be used in standalone mode with or without anti-pass back or, in network mode, connected to a PC host by means of an RS485 link.

The controller electronics and keypad are fully encapsulated to IP65. It also has a built-in door relay plus an alarm relay. A duress code can also be programmed into the unit.

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SINGLE DOOR KEYPAD ACCESS CONTROLLER

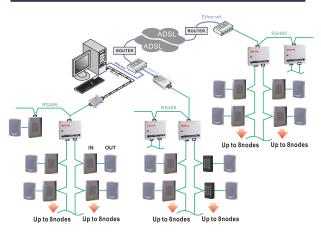
K50i

Networking & Stand-alone Keypad Access Controller

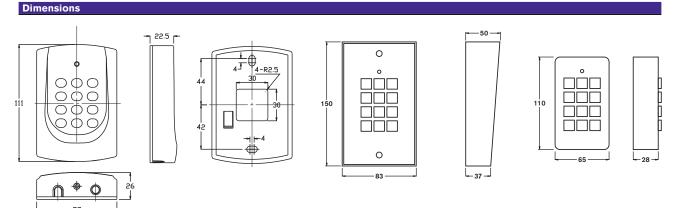
Specification Mode No.	M4	M6	M8*	
		(Stand-alone)		
User Capacity	1,024	65,536	1,024	
Event Log	1,200	-	1,200	
Access Mode	Networkable or	Stand Alone	Networkable or	
	Stand-alone	Only	Stand-alone	
	5 Digit User	4 Digit	4 Digit Individual	
	address +	Common Code	Passcode	
	4 Digit Individual		*Default	
	Passcode			
Supports	Stan	d-alone / Netwo	rking	
Power Requirement		9-18V AC/DC		
Power Consumption		< 3W		
Communication Interface	Hos	Host Connection RS485		
Baud Rate		9600bps (N, 8, 1)		
Environment		-20°C to +75°C		
DI Digital Input	Egress	Egress Button + Door Sensor		
DO Digital Output	1 Door	1 Door Relay Output 3A 5PCO		
Transistor Output	Dures	Duress / Alarm / Arming LED		
Door Relay / Time	2A 30VD	2A 30VDC / Toggle or 0.1-600 sec		
Anti-pass Back	Yes with	Yes with Wiegand keypad AR-721K		
Alarm Relay / Time	To	Toggle or 1-600 sec		
Tamper Resist. Switch	Lin	Limit Switch (From C)		
Serial Out	TTL	TTL (4800 bps, N, 8, 1)		
Waterproof		IP65		
Indicator	A bi-co	A bi-colour LED and 1 buzzer		
Colour		Dark Pearl Grey		
Dimensions (mm)	PBT only	PBT only: 114(H) x 65(W) x 28(D)		
	Metal Box	Metal Box: 150(H) x 83(W) x 50(D)		
Housing material		PBT Keypad Housing		
	Metal E	Box: 316 Stainles	ss Steel	



System Architecture



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Complete Keypad	Equivalent
	Previous Mo
K50P - Plastic Surface Mount	K50
K50F - Steel Flush Mount	K50S
(Requires double gang flush	
box, ordered separately)	
K50CS Steel Surface Mount	K50C
(Purchase K50F & K51S)	
To add K50i to panel, use	Suffix /K
suffix /Ki	

TWO ADJACENT DOOR KEYPAD ACCESS CONTROLLER

3

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Standalone Keypad Access Controller for 2 Adjacent Doors or 1 Door plus Door Bell (#) AR-721KP-B

- Standalone Keypad Access
- Two Relays
- 500 Codes (3-6 DIGITS)
- Bi-colour LED and SOUNDER
- Adjustable Relay Times
- Operating Voltage 9-18v AC/DC
- Tamper Resistant Switch

The AR-721KP-B Access Controller is a stand-alone keypad with a 500 code memory and a bi-colour LED and sounder.

The codes can each have between 3 and 6 digits. The unit has two relays that can be used for one door plus a door bell function using # as a bell push. The two relays can also be used to give access to two adjacent doors with half of the codes allocated to each relay. This is the default setting but all of the codes can be programmed to operate one relay only.

The unit is provided with a tamper resistant switch and is built into a dark grey ABS case.

AR-721KP-B

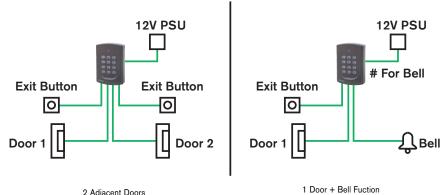
Stand-alone Keypad Access Controller

o		
Specification	-	
User Capacity	500 codes	
Passcode	3-6 digit	
Power Requirement	9-18V AC/DC	
Power Consumption	< 2W	
Supports	Stand-alone	
Memory	EEPROM	
Environment	-20°C to +75°C	
DI Digital Input	Egress Button + Door Sensor	
DO Digital Output	2 Door Relay Output	
	(User Address 000-249 active Relay 1)*	
	(User Address 000-249 active Relay 2)*	
	*Default	
Door Relay / Time	3A 30VDC / 0, 0.1-600 sec	
Alarm or 2nd Door Relay / Time	3A 30VDC / 0, 1-600 sec	
Tamper Resist. Switch	Limit Switch (From C)	
Indicator	A bi-colour LED and 1 buzzer	
Colour	Dark Pearl Grey	
Dimensions (mm)	111(H) x 77(W) x 26(D)	
Weight (g)	100±10	
Housing material	ABS	

Stand-Alone

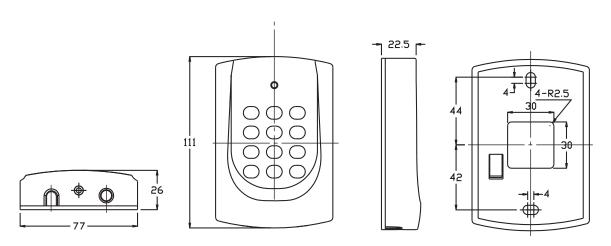


System Architecture



2 Adjacent Doors

Dimensions



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WIEGAND CONTROLLER + READER + FINGERPRINT DEVICE

AR-211

Networking & Stand-alone Controller Networking Reader Fingerprint Identification Device

AR-821EF (125K)

- Fingerprint capacity up to 1,450
- Short response time for fingerprint identification
- Backup storage of fingerprints, passwords and ID cards.
- High fingerprint recognition rate, FAR=0.0001%, FRR=0.01%. (By taking several copies of each fingerprint, the recognition rate for smoother prints, as with older people is greatly enhanced).
- Supports fingerprint database downloading & uploading from/to PC.
- User (card) capacity up to 10,000.
- Dual function for access control and time attendance systems.
- User friendly editing interface supported by LCD panel.
- Networking controller function, also directly editable through software.
- Built-in watchdog to prevent the system from locking up.
- An extra WG port which enables connection to another WG reader (for exit or anti-pass-back only).

FC CE

RAYTEL SECURITY SYSTEMS 🗐

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WIEGAND CONTROLLER + READER + FINGERPRINT DEVICE **AR-821EF**

Networking & Stand-alone Controller Networking Reader Fingerprint Identification Device

Specification	
RF Frequency	125KHz
User Capacity	10,000
Event Log	11,000
Power Requirement	10-24VDC
Power Consumption	< 5W
Communication Interface	RS485 / Ethernet (option)
Baud Rate	9600 bps (N, 8, 1)
Environment	-20°C to +75°C
Compliance	ISO14443A (13.56M only)
Door Relay / Time	3A 30VDC N/O, N,C, Comm / 0-600 sec Max
Alarm Relay / Time	3A 30VDC N/O, N,C, Comm / 0-600 sec Max
Aux. WG Port	WG 26/34, ABA-II, OMRON
Door Group	255
Time Zone	63
Editing Interface	Controller / PC Software
Proximity Reading Range	8-15cm
Colour	Dark Pearl Gray / Silver
Dimensions (mm)	132(H) x 144(W) x 102(D)
Weight (g)	460±10
Housing material	ABS
LCD Panel (pixel)	128 x 64
	(4 line messages, 16 characters each line)
Access Mode - Check FP	Fingerprint Only ••
Access Mode - No Check FP	Card Only / Card or PIN / Card + PIN
Fingerprint Sensor	Photo
Resolution	500DPI
Fingerprint Scan Area (mm)	16 x 18
FAR	< 0.0001%
FRR	<0.01%
Response Time	1.2 sec
Matching Mode	1 : N : 1 : 1
Fingerprint Capacity	1,450

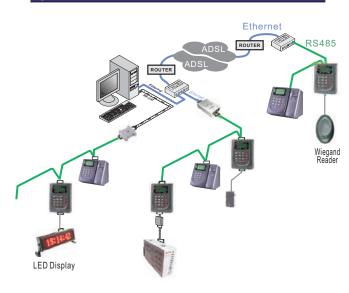
• When "Check Fingerprint" function is enabled, FP checking

would always be in the highest priority which surpasses other requirements. Although the user is asked to use card or/and PIN to access, as long as his (her) fingerprint is identified, he (she) is

• Stand-Alone • Networking • 125K

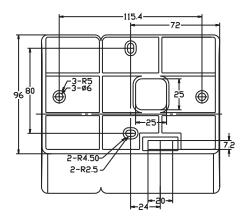


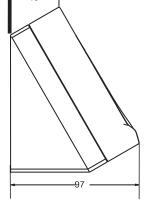
System Architecture

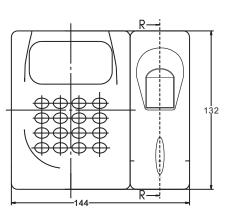


Dimensions

still allowed to access.







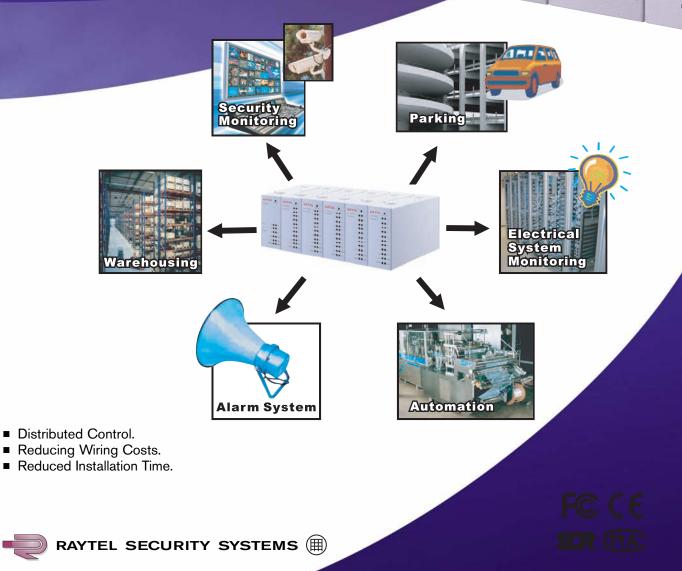
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PROGRAMMABLE CONTROLLER

2 Channel Processor Module AR-401E

16-Channel Digital Input Module AR-401DI16 16-Channel Relay Output Module AR-401R016





PROGRAMMABLE CONTROLLER

AR-401E

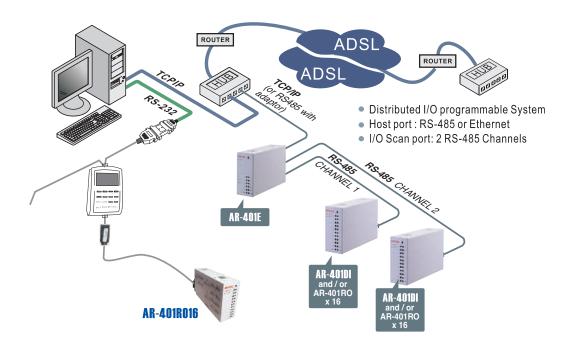
2 Scan Channel Processor Module AR-401E 16-Channel Digital Input Module AR-401DI16 16-Channel Relay Output Module AR-401RO16



The AR-401E, together with its sub-modules AR-401DI16 and AR401R016, is a programmable controller that provides an optimum solution for both access control and industrial applications in either centralised or distributed system architecture. It provides input-output event control via user friendly programming tools that include timer functions. It also fulfils PLC requirements for access control systems.

Specification				
Model No.	AR-401E	AR-401DI16	AR-401RO16	
Event Log	10,000	-		
Power Requirement		9-24VDC		
Power Consumption		1W	12W	
Communication Interface		RS-485 / Ethernet (optional)		
Baud Rate - RS-485	9600bps / 19200bps (N, 8, 1)	4800bps / 9600bps / 19200bps (N, 8, 1)	4800bps / 9600bps / 19200bps (N, 8, 1)	
Baud Rate - Ethernet (optional)		10M	•	
Channels / Inputs / Outputs	2 RS-485 Scan Channel,	16 Contact input	16Form C Clean Contact Relay Output	
	1 RS-485 for Host	(Sink, N. C. type)	3A 30VDC	
	(removable for Ethernet Mode)			
LED Indicator	Power, Tx / Rx	Power, Tx / Rx,	Power, Tx / Rx,	
		Input Close / Open / Break	Relay On / Off	
Data Capacity	8M Bytes SRAM Memory		-	
	60 Days Memory Backup			
Remote IO Capacity	512		-	
Virtual IO Capacity	512		-	
Sequential Steps	2048		-	
Real Time Clock	Yes		-	
Dimensions (mm)	97(H) x44(W) x 180(D)			
Weight (g)	600±50			
Housing material	Metal			

System Architecture (AR-401E/401DI16/401RO16 & PC



WIEGAND READERS

Wiegand Reader AR-721U (125K) AR-721KBX (125K/MIFARE) AR-661U (125K) Wiegand / RS-485 Reader AR-737H/U (125K/MIFARE)

0

2

8

0

5 6

4 7

B1F

B2F

••

Multi-door Anti-pass-back 3

9

PARKING

1F

B1F

- Various programmable output formats WG26/34, ABA-11, ASYNC & OMRON.
- Anti-pass-back available, depending upon system configuration.
- Built-in watchdog to prevent the system from locking up.
- Easily integrated with Soyal or other access control systems.

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LIFT CONTROL

WIEGAND AND SMART CARD READERS

AR-721U, AR-721KBX AR-661U, AR-737H/U

Wiegand Reader

AR-721U



(Card / Token) • Networking • 125K • Waterproof

Wiegand Reader

(Card / Token + PIN) • Networking • 125K • Mifare

Long-Range Wiegand Reader

(Card / Token)

Networking • 125K

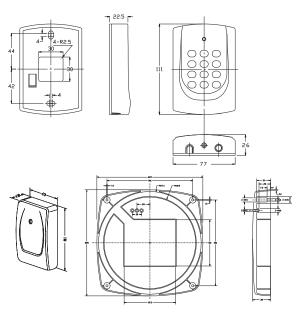
Waterproof

Specification

AR-721U	AR-721KBX	AR661U
125KHz	* 125KHz /	125KHz
	** 13.56MHz	
	9-16VDC	
50mA	* 80mA	350mA
	** <1W	
WG 26/34	, ABA-II, ASYNO	C, OMRON
g	600bps (N, 8, 1)
-20°C to +75°C		
3 - 8cm	* 10 - 18cm	33 ~ 60cm
	** 3 - 8cm	
Bi-colour LED	Bi-colour LED	Three LED's
and a beeper	and a beeper	and a beeper
No	Yes	No
*** Yes	No	Yes
Dark Pearl Grey	Silver	Dark Pearl Grey
80.5(H) x 43(W)	111(H) x 77(W)	228(H) x 229(W)
x 18(D)	x 26(D)	x 38(D)
40±5	90±10	1,000±50
	ABS	
	125KHz 50mA WG 26/34 3 - 8cm Bi-colour LED and a beeper No *** Yes Dark Pearl Grey 80.5(H) x 43(W) x 18(D)	125KHz * 125KHz / 13.56MHz 9-16VDC 50mA * 80mA ** <1W

* 125KHz Version. ** 13.56MHz Version. *** BX3221

Dimensions



Wiegand / RS-485 Reader AR-737H / AR-737U

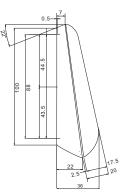
• Networking • 125K • Mifare • Waterproof

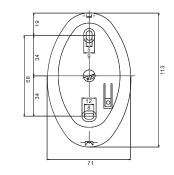


RF Frequency	* 125KHz / ** 13.56MHz			
Power Requirement	* 9-16VDC / ** 9-24VDC			
Power Consumption	< 1.5W			
Communication Interface	RS485 (737H only), TTL Wiegand (737U only)			
	and OMRON			
Baud Rate	9600 bps / 19200 bps (N, 8, 1)			
Environment	-20°C to +75°C			
Compliance	ISO14443A (13.56M only)			
Proximity Reading Range	* 12-20cm / ** 3-8cm			
Read / Write	* Read Only / ** Read / Write			
Supported Tags	* EM4001 / EM4012 Compliant			
	** Mifare Ultra Light (L10)			
	** Milfare Standard (S50)			
	** Milfare Plus (P60)			
Indicator	A Bi-coloured LED and a beeper			
Waterproof	Yes			
Colour	Dark Pearl Gray			
Dimensions (mm)	113(H) x 71(W) x 36(D)			
Weight (g)	80±10			
Housing material	ABS			
Door Relay	Use AR-821RB-18			

* 125KHz Version. ** 13.56MHz Version

Dimensions





RS485 READERS

For Cards or Tokens AR-737HB-RAY VR-RAY-S VR-RAY-F

- High Visibility Front.
- Raised Token Logo.
- RS485 communication Interface.
- Up to 1000metre Cable Run.
- Waterproof.
- Stainless steel Vandal Resistant Housing available.
- Bi- colour LED and Sounder.
- EM4001/EM4012 compliant tokens.
- Power Requirement <1.5w</p>
- Operating Temperature: -20 to +75°C.
 Standard Colour: Pearl grey with yellow and black front.
- Output for local lock relay



(RAYTEL)

The DDA compliant AR-737HB-RAY RS485 proximity reader for card or token is available in standard and vandal resistant versions for surface or flush mounting.

The AR-737HB-RAY proximity reader has been designed to operate with Controller AR-727HB-RAY or Master Controller AR-716E via an RS485 link to enable cable runs of up to 1000 metres to be used between controller and reader. This reader has a high visibility/contrast yellow and black front with raised token logo to assist visually impaired people. It has a built-in LED and sounder to indicate acceptance or rejection of a token/card. The reader is available in standard form for mounting directly on a wall or similar surface with a clip-on protective cover. Although the reader is waterproof and fairly robust, it is recommended that the terminals at the rear are protected from condensation with a silicone sealant. The reader can also be provided with a vandal resistant stainless steel case for surface (VR-RAY-S complete) or flush mounting (VR-RAY-F complete). Both VR versions use a standard single way, 35mm deep, metal, electrical back box.

This reader operates in a similar way to AR-737H in that it has an output that can be used to operate a local lock relay if this is preferred to using the lock relays in the Controller.

Note: Diodes should always be fitted across the lock inputs in accordance with best practice.





RAYTEL SECURITY SYSTEMS

RS485 CARD OR TOKEN READERS

AR-737HB-RAY, VR-RAY-F, VR-RAY-S

Mode No.	AR-737HB-RAY Specification			
FR Frequency	125KHz / 150KHz			
Power Requirement	<1.5W			
Voltage	9-16VDC			
Communication Interface	RS-485			
Baud Rate	9600 bps (N, 8, 1)			
Operation Temperature	-20°C to +75°C			
Proximity Reader Range	5-8cm(125KHz) / 5-8cm(150KHz)			
Supported Token	EM4001 / EM4012 Compliant			
Indicator	1 bi-colour LED and 1 beeper			
Waterproof	Yes			
Dimension (mm)	65(L) x 65(W) x 18.5(H)			
	60(L) x 60(W) x 18.5(H)			
N.W. / G.W. (g)	80±10 / 110±10			
Housing Material	ABS			

Colour Zones

In those cases where customers require different levels of access for members of staff, the controllers can be programmed to give different levels of access to the proximity cards or tokens. The plastic cover for the proximity reader for each area can be supplied in a colour equating to a particular level of access. Those tokens giving access to an area should be fitted with a self-adhesive label of

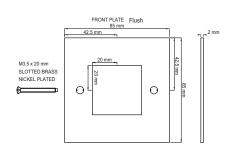
the same colour as the reader cover. Four additional colour zones are offered as standard but more could be made available to special order. Where proximity ID cards are used, the colours for the zones could be included in the printing of the cards.

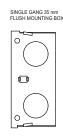
Proximity Reader (Card / Token) VR-RAY-F

- Networking
- Waterproof
- Vandal Resistant
- Flush Mounting



VR-RAY-F Dimensions





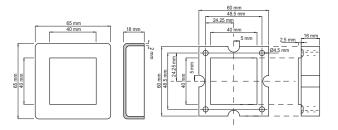
Proximity Reader (Card / Token) AR-737HB-RAY

- Networking
- Waterproof
- ABS



See Accessories Page for Colour Zone ordering information.

Dimensions

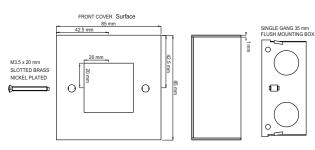


Proximity Reader (Card / Token) VR-RAY-S

- Networking
- Waterproof
- Vandal Resistant
- Surface Mounting



VR-RAY-S Dimensions



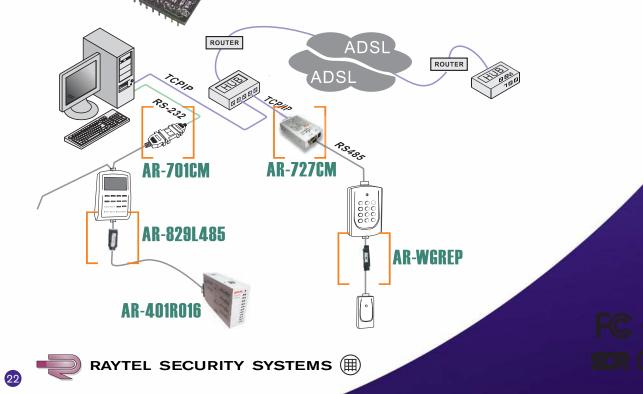
CONVERTERS & ACCESSORIES

Isolated RS-232 / RS-485 Converter AR-701CM





Serial Device Network Server
AR-727CM



CONVERTERS & ACCESSORIES

AR-727CM, AR-701CM-RAY, AR-701CM-18, AR-727i, AR-WGREP, AR-829L485, AR-821RB-18, Zone Colours

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.
- With software on CD-Rom.

Sp	pecification	

Model No.	AR-727CM			
Converting Interface	10 Base T Ethernet / RS-232, RS-485			
Baud Rate	4800bps - 57600bps			
Power Requirement	9-24VDC			
Power Consumption	<2W			
Environment	-20°C to +75°C			
Protocol	TCP/IP, ICMP, DHCP			
Dimensions (mm)	110(H) x 62(W)x24(D)			
Weight (g)	240±10			
Housing Material	Metal			

Isolated RS-232 / RS-485 Converter



- Automatic data direction control.
- RS-232 powered from DTR, RTS (activation needed).
- Upto 32 units in RS-485 multi-door operation.
- Built-in power and data transmission LED indicator for signal state.
- With software on CD-Rom.

Specification

Model No.	AR-701CM			
Converting Interface	RS-232, RS-485			
Power Requirement	9-24VDC			
Power Consumption	<1.5W			
Environment	-20°C to +75°C			
Effective Range	2M (RS-232) / 300M (RS-485)			
Optical Isolation	2KV			
Dimensions (mm)	64(H) x 55(W)x16(D)			
Weight (g)	40±5			

Wiegand Repeater



AR-WGREP
12VDC / 5-7mA
Pulse 100-300µS
Pulse 220-420µS

USB to RS-485 Converter AR-701CM-18

• With software on CD-Rom.

Specification				
Converting Interface	USB to RS-485, RS-485 to USB			
Voltage	5VDC			
Current	Initial 10mA / Hold 15mA			
Operation Temperature	-20°C to +75°C			
Dimensions (mm)	53(L)x25(W)x10(H)			
Weight (g)	65			

Serial Device Network Module **AR-727i**



- Built-in Ethernet and TTL serial interface.
- TCP/IP, DHCP, ICMP and ARP supported.

Specification		
Model No.	AR-727i	
Converting Interface	10 Base T Ethernet / UART (TTL)	
Baud Rate	4800bps - 57600bps	
Power Requirement	5VDC	
Power Consumption	<0.5W	
Environment	-20°C to +75°C	
Protocol	TCP/IP, ICMP, DHCP	
Dimensions (mm)	45(H) x 28(W)x14(D)	
Weight (g)	15	

TTL to RS-485 Signal Converter

Specification		
Model No.	AR-829L485	
Converting Interface	TTL, RS-485	
Power Requirement	9-15VDC	
Current	120mA	
Environment	-20°C to +75°C	
Effective Range	300M	
Dimensions (mm)	52(H) x 14(W)x11(D)	
Weight (g)	14	

Relay Output Module **AR-821RB-18**

- Relay has 1 Form C contact.
- Positive or Negative Trigger.
- Converts transistor signal to relay output.
- Built-in flywheel diode & contact surge protection.
- Built-in LED indication.

Specification			
Model No.	AR-821RB-18		
Voltage	9-18V AC or DC		
Output Contact	1 Form C, 7A 30VDC		
Current	100mA		
Operation Temperature	-20°C to +60°C		
Dimension (mm)	20(D)x31(W)x47(H)		

Zone Colours for AR-737HB-RAY

 A range of colour stickers and matching colour covers to provide users with visual confirmation of 'Access Levels' by matching colour zones.

Token/Key Chain Colour Stickers (sheets of 20 stickers)			
AR-Black Sticker	for AR-Token/Key Chain, 20 per Sheet		
AR-Red Sticker	for AR-Token/Key Chain, 20 per Sheet		
AR-Blue Sticker	for AR-Token/Key Chain, 20 per Sheet		
AR-White Sticker	for AR-Token/Key Chain, 20 per Sheet		
AR-Grey Sticker	for AR-Token/Key Chain, 20 per Sheet		
If using cards we recommend cards are printed with colours to match readers.			
Colour Covers (replaces standard grey cover)			
AR-Black Cover	for AR-737HB-RAY reader		
AR-Red Cover	for AR-737HB-RAY reader		
AR-Blue Cover	for AR-737HB-RAY reader		
AR-White Cover	for AR-737HB-RAY reader		
AR-Grey Cover	Supplied with AR-737HB-RAY as standard		

ILLUMINATED PIEZO PUSH BUTTONS

Soyal Illuminated Piezo Push Buttons AR-PB-8A AR-PB-6A

- Bi-coloured LED ring indicator.
- Ultra-thin design for surface mounting.
- Waterproof (IP65).
- Built-in over current protection.

The Soyal Illuminated Piezo switch is an elegant, lightweight, wall mounting switch operating on piezo electric technology and with an illuminated bezel surrounding the switch pressel.

The bezel would normally be illuminated in red, changing to green when the switch is pressed e.g. as an exit button. The AR-PB-8A has been designed to fit either directly to a wall or to a single way electrical back box and the AR-PB-6A has been designed to fit directly onto a narrow door frame.

FC CE

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ILLUMINATED PIEZO PUSH BUTTONS

AR-PB-6A, AR-PB-8A

Illuminated Piezo Push Button **AR-PB-6A**



Specification				
Features	Description	min	typical	max
Switch Type	Normally Open (N/O)			
Input Voltage	DC 5-24V	5	12	24
Switch Current	100mA		100mA	
On resistance		10Ω	15Ω	25Ω
Off resistance		2MΩ	4MΩ	5MΩ
Protection	Poly switch (Max 24VDC)	150mA	350mA	500mA
Indicator	Red & Blue/Green LED		10mA	
	(680 Ω serial resistor		@12VDC	
	for each LED)			
Force		110g	200g	1000g
Pulse time	5VDC	50ms	350ms	1000ms
	12VDC	50ms	350ms	1000ms
	24VDC	100ms	120ms	800ms
Housing material	Metalised ABS - chrome finish			

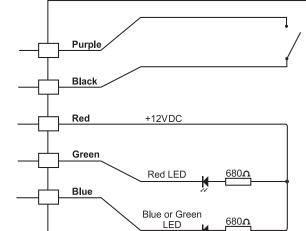
Illuminated Piezo Push Button **AR-PB-8A**



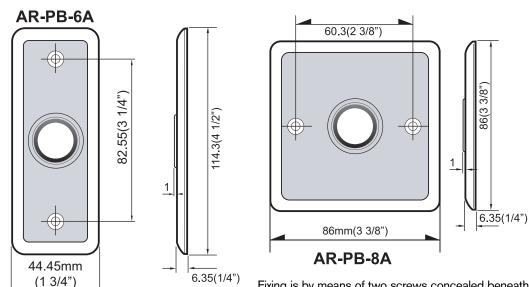
Wiring

Dimensions

Red	Black Purple		Blue	Green
LED Power	Switch Output		LED (Blue / Green)	LED (Red)
+12VDC	СОМ	N.O. (Open Collector)	Low Active	Low Active



Dimensions



Fixing is by means of two screws concealed beneath a self-adhesive label.

ELECTROMAGNETIC LOCKS

Quality electromagnetic locks and drop bolts in a wide range of sizes and holding forces available for most popular applications.

Selected locks include additional features, such as door monitoring and LED indication as standard.

Mortise / Recessed Mount AR-0600M-R

- 600Lbs / 250Kg Holding force.
- Door monitoring (reed) output.
- 12 or 24 Volt operation.
- Standard size to fit Transom Housings.

External (Gate) Face Mount AR-1500WF

- 1300Lbs / 600Kg Holding force.
- Stainless steel construction.Door monitoring
- (reed) output. 12 or 24 Volt
- operation.
- 25mm conduit connection.
- Z&L Bracket for inward opening available.
- Surface mount version available.

Surface Lock Install Guide

Surface Mount AR-0600M

- 600Lbs / 250Kg Holding force.
- Compact size.
- Door monitoring (relay) output with LED indication
- 12 or 24 Volt operation.
- Z&L Bracket for inward opening available.
- Glass mounting bracket available.
 - Double version available.

Surface Mount AR-1200M

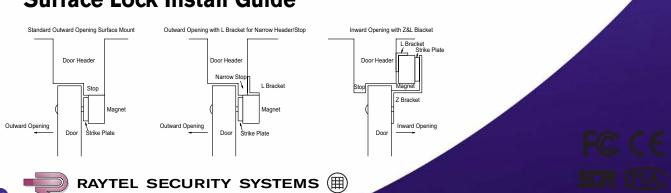
- 1200Lbs / 500Kg Holding force.
- Door monitoring (relay) with LED indication.
- 12 or 24 Volt operation.
- Z&L Bracket for inward opening available.
- Double version available.

Drop Bolt

- Door monitoring (reed) output.
- Request to open input.
- Auto 5 Second relock, if unopened.
- Delay Time 0, 3, 6, 9 Seconds.
- 12 Volt operation, polarity protected.

11111

Glass mounting bracket available.



ELECTROMAGNETIC LOCKS

All Dimensions in mm

	et Series		ABAGGGE			
itandard Single	AR-0090M •	AR-0200M •	AR0300M	AR-0600M	AR-0600MR	AR-1200M
Outward / Inward Opening		1.	1		1	17.
ingle Doors			a ce			
ide Mount						
			V.	V. a		· · · · ·
	00	* *				
				Monitored	Recessed +	Monitored
			Monitored	+ LED	Monitored	+ LED
Magnet Body (mm)	70L x 35W x 20H	160L x 28W x 17H	166L x 38.5W x 21H	251L x 47W x 25H	228L x 38W x 27H	266L x 73.5W x 40H
Strike Plate (mm)	62L x 32W x 9H	130L x 28W x 8H	130L x 32W x 10H	185L x 38W x 12H	185L x 38W x 12H	185L x 61W x 16H
lolding Force (lbs/kg)	80/40	220/110	300/150	600/250	600/250	1200/500
Current Drawn (12V/24V)	200mA/100mA	200mA/100mA	370mA/185mA	400mA/200mA	400mA/200mA	500mA/250mA
Z and L Brackets	N/A	N/A	AR-0300MZL	AR-0600MZL	N/A	AR-1200MZL
Brackets / L			166L x 43W x 33H	251L x 51W x 33H		266L x 75W x 48H
Conversion Kit Z			166L x 50W x 43H	190L x 50W x 50H		190L x 72W x 72H
Glass and Narrow Frame	N/A	N/A	AR-0300M-U	AR-0600M-U	N/A	N/A
J Bracket Size			140L x 43W x 28H	190L x 43W x 28H		
Standard Double		AR-0600M-DB			AR-1200M-DB	
Outward Opening	i le					
Double Doors						1:01:10:1
Side Mount					9:10:	
		4		.: 01: 0		
						-
	Monitored + LED			Monitored + LED		
			+ LED			+ LED
Magnet Body (mm)		502L x 47W x 25H		532L x 73.5W x 40H		
Strike Plate (mm)		185L x 38W x 12H (x2)		185L x 61W x 16H (x2)		
Holding Force (lbs/kg)	600/250 (x2			1200/500 (x2)		
Current Drawn (12V/24V)		400mA/200mA (x2)		500mA/250mA (x2)		
External	AR-400WF (AR-0400WS •	AR-1500WF	2	AR-1500WS •
Outward / Inward Opening						
	Face Mount	Side Mou	unt int	Face Mount	Side Mou	unt 🖌
	Face Mount	Side Mou	unt a	Face Mount	Side Mou	unt
	Face Mount	Side Mou	unt ce o	Face Mount	Side Mou	unt
Single Doors / Gates	Face Mount	Side Mou	unt (é	Face Mount	Side Mou	Int
Single Doors / Gates	Face Mount	Side Mou	int ce	Face Mount	Side Mou	Int
Single Doors / Gates	Face Mount	Side Mou	int ce	Face Mount	Side Mou	unt
Single Doors / Gates	Face Mount	Side Mou	unt ce			11º
Single Doors / Gates	Face Mount	Side Mou	unt ce		Side Mou Monitored	Monitored
Single Doors / Gates Stainless Steel			·		Monitored	11º
Single Doors / Gates Stainless Steel Magnet Body (mm)	Face Mount	26H 16	unt 4L x 35W x 26H 10L x 32W x 10H		Monitored 2H 22	Monitored
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm)	164L x 35W x 2	26H 16	4L x 35W x 26H	203L x 63W x 4	Monitored 2H 22	Monitored 26L x 65W x 42H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg)	164L x 35W x 2 130L x 32W x 1	26H 16 10H 13	4L x 35W x 26H 10L x 32W x 10H 400/180	203L x 63W x 4 185L x 61W x 1 1300/600	Wonitored 21 22 6H 18	Monitored 26L x 65W x 42H 25L x 61W x 16H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V)	164L x 35W x 2 130L x 32W x 1 400/180	26H 16 10H 13 A 3	4L x 35W x 26H 10L x 32W x 10H	203L x 63W x 4 185L x 61W x 1	Monitored 2H 22 6H 1E	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V)	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 16 10H 13 A 3	4L x 35W x 26H 10L x 32W x 10H 400/180 370mA/185mA	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m	Vonitored 2H 22 6H 1E A 4	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 16 0H 13 A 3 16	AL x 35W x 26H AL x 35W x 26H AD x 32W x 10H 400/180 370mA/185mA R-0400MZL •	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m/ AR-1500WF-Z	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA 3-1500WS-ZL •
Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Cand L Brackets Brackets / L Conversion Kit Z	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 166 10H 13 A 3 A 3 A 16 16 16	4L x 35W x 26H 0L x 32W x 10H 400/180 370mA/185mA IR-0400MZL • 4L x 43W x 33H	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets / L Conversion Kit Z J - Glass and Narrow Frame	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 166 10H 13 A 3 A 3 A 16 16 16	ALL x 35W x 26H ALL x 35W x 26H ALL x 32W x 10H 400/180 370mA/185mA AR-0400MZL • 4L x 43W x 33H 4L x 50W x 44H	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets Brackets / L	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 166 10H 13 A 3 A 3 A 16 16 16	ALL x 35W x 26H ALL x 35W x 26H ALL x 32W x 10H 400/180 370mA/185mA AR-0400MZL • ALL x 43W x 33H ALL x 50W x 44H ee AR-0300M-U	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets / L Conversion Kit Z J - Glass and Narrow Frame	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 166 10H 13 A 3 A 3 A 16 16 16	ALL x 35W x 26H ALL x 35W x 26H ALL x 32W x 10H 400/180 370mA/185mA AR-0400MZL • ALL x 43W x 33H ALL x 50W x 44H ee AR-0300M-U	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets / L Conversion Kit Z J - Glass and Narrow Frame	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 166 10H 13 A 3 A 3 A 16 16 16	ALL x 35W x 26H ALL x 35W x 26H ALL x 32W x 10H 400/180 370mA/185mA AR-0400MZL • ALL x 43W x 33H ALL x 50W x 44H ee AR-0300M-U	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets / L Gonversion Kit Z U - Glass and Narrow Frame Door Holder	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m	26H 166 10H 13 A 3 A 3 A 16 16 16	ALL x 35W x 26H ALL x 35W x 26H ALL x 32W x 10H 400/180 370mA/185mA AR-0400MZL • ALL x 43W x 33H ALL x 50W x 44H ee AR-0300M-U	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets Brackets / L Conversion Kit Z J - Glass and Narrow Frame Door Holder Magnet Body (mm)	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m N/A	26H 16 00H 13 A 3 16 16 56	4L x 35W x 26H 14L x 35W x 26H 10L x 32W x 10H 400/180 370mA/185mA 14L x 40W x 33H 14L x 43W x 33H 14L x 43W x 33H 14L x 50W x 44H see AR-0300M-U AR-0180M	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H
Single Doors / Gates Stainless Steel Magnet Body (mm) Strike Plate (mm) Holding Force (lbs/kg) Current Drawn (12V/24V) Z and L Brackets Brackets / L Conversion Kit Z U - Glass and Narrow Frame	164L x 35W x 2 130L x 32W x 1 400/180 370mA/185m N/A	26H 16 0H 13 A 3 166 16 16 56 100L x 38W x 38H	4L x 35W x 26H 14L x 35W x 26H 10L x 32W x 10H 400/180 370mA/185mA 14L x 40W x 33H 14L x 43W x 33H 14L x 43W x 33H 14L x 50W x 44H see AR-0300M-U AR-0180M	203L x 63W x 4 185L x 61W x 1 1300/600 500mA/250m AR-1500WF-2 225L x 72W x 4	Vonitored 2H 22 6H 18 A 4 1L AF 8H 22	Monitored 25L x 65W x 42H 35L x 61W x 16H 1300/600 500mA/250mA R-1500WS-ZL • 25L x 72W x 48H

Specification - Electric Bolt Series

Electric Bolts			LK-1201A	LK-1201B 😐
			- mm	a mini
Lock Body (mm)	205L x 32W x 43H			
Strike Plate (mm) 104L x 32(25)W x 35H				
Voltage	12VDC	12VDC ± 10%		Relay O/P +
Current Drawn Initial 900mA/Hold 380(320)mA		Reed O/P	LED Indicator	
Brackets	LK-1201A-U (Glass/Narrow Frame)		LK-1201A-BR (Mounting Box)	
Size (mm)	210L x 22W x 50H	110L x 22W x 50H	210L x 44W x 50H	110L x 44W x 50H

Special Order Only

Company Profile

Raytel Security Systems is a prominent supplier of a wide range of Door Entry, Access Control and CCTV Equipment to the UK Security Industry for both private applications and for public buildings.

Products

The product portfolio of Raytel Security Systems Ltd consists of both Distributed Goods and In-House manufactured products. The company is the exclusive UK distributor for a number of prominent international manufacturers. These products are combined with the company's own range of products to form a comprehensive range of combined Door Entry and Access Systems.

Systems

Door Entry

Kits – Generally used for simple one door, one to 10 way systems

Sound System – A modular range with electronic chime for functional dial systems, single to multi door, can have functional and digital dial porter switchboards.

Open Voice – A modular range similar to Sound System with open voice units allowing communication between visitor and user with automatic audio switching.

Two-Wire – A modular range generally used for simple digital dial systems up to 200 users and 15 doors, single to multi door, can have digital dial switchboard.

Digibus – A modular range generally used for larger digital dial systems up to 10,000 users and 99 doors, single to multi door and building complex configuration, can have digital dial or PC porter switchboards. **Isolated Systems** – A range of central controllers providing fully isolated and integrated door entry and access control solutions, ideally suited for Local Authority, Housing Association and Schools applications.

Access Control

A range of systems from standalone to complete networks to suit most applications.

Automation

A range of swing, sliding and underground systems for domestic and light industrial gates, garage doors, barriers and stop bollards, motors for sun awnings and roller shutters.

ССТУ

A range of CCTV equipment is also available (see separate brochure).

We will be pleased to quote and engineer systems to your requirements, please contact our sales departments on the numbers opposite.

RAYTEL SECURITY SYSTEMS

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