

# Fingerprint

## Access control system



Soyal Fingerprint reader empower unique fingerprint biometric of each person to be used as ultimate identification that increase security level and time attendance accuracy for your organization.

### Modern and slim

AR837EF can be partially embedded into wall to achieve super thin outlook. AR881EF is slimmer without LCD and keypad. Modern black silver concept to suit contemporary modern design.

### Big LCD screen personalization

AR837EF big LCD screen can display your company and employee name to reinforce your corporate image.

### Precise and fast recognition

Optical and capacitive scanner identify fingerprint in ultrafast speed 970 msec and 650 msec respectively to minimize long queue waiting time.

### Powerful access control function

Support advance access control to precisely control Who can enter Where (door group) at What time (time zone) using What method (fingerprint, card or pin) within the authorized period (Expiry date).

### Time attendance reporting

SoyalEtegra software offer weekly, over-midnight and flexible shift to calculate time attendance. Late, early home, long lunch and absentism report can help to improve employee punctuality.

### Value added security software

SoyalEtegra allow multiple client PC to login and use the system simultaneously via LAN / Internet. For enterprise user, SoyalEtegra support multi branch remote view, CCTV, alarm monitoring, Emap and other advanced function to achieve total integrated building security system at very affordable price.



**AR837EF\_OS**

Optical sensor  
Dual frequency EM & Mifare

**AR881EF\_OS**

Optical sensor



**AR837EF\_CS**

Capacitive sensor  
Dual frequency EM & Mifare

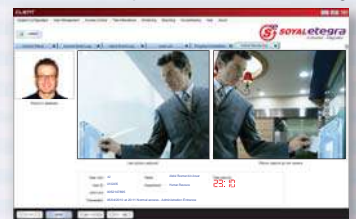
**AR881EF\_CS**

Capacitive sensor

Icon based menu easy to learn



CCTV capture of in & out clocking



Alarm monitoring & picture capture



Multi shift time attendance



**SOYAL**etegra  
Access Control Management Software



## AR837EF / AR881EF specification

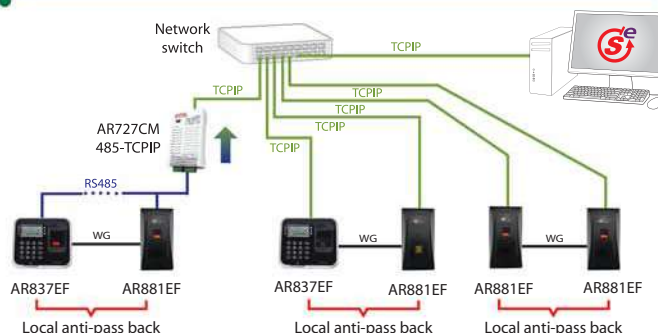
Card user	16,000 card users	
Event memory	32,000	
Time zone	63	
Holiday per year	120	
Door group	255	
Anti-passback	YES (Local anti-passback)	
Alarm function	Door sensor input for force entrance and door open too long	
Duress function	4 duress code pin number	
LCD screen for AR837EF only	Graphical big LCD 128 x 64 (4 line message, 16 character per line)	
External Wiegand port	Yes, WG26 / WG34	
Push button input	YES	
Access Mode	Check FP	Fingerprint only *
	No Check FP	Card only / Card or PIN / Card + PIN

Flexible architecture allow mixture of TCP/IP and RS485 network connection to achieve most efficient cabling cost.

## RS485 network connection

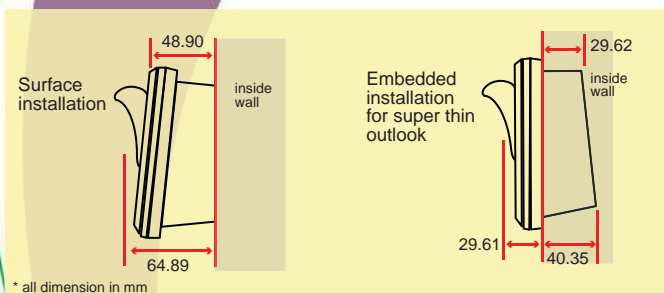


## TCP/IP network connection



## AR837EF / AR881EF fingerprint feature

Fingerprint Sensor	Optical Sensor OS	Capacitive Sensor AR837EF_CS
1:1000 Identification time	970 msec	650 msec
FRR	< 0.01 %	
Fingerprint module CPU	400 MHz DSP	
Image size	384 Bytes	
Fingerprint capacity	9,000 templates (each user 2 templates)	
Sensor size (mm)	63 (L) X 43 (W) X 10(H)	
Encryption	256 bit AES (fingerprint data protection)	



\* all dimension in mm

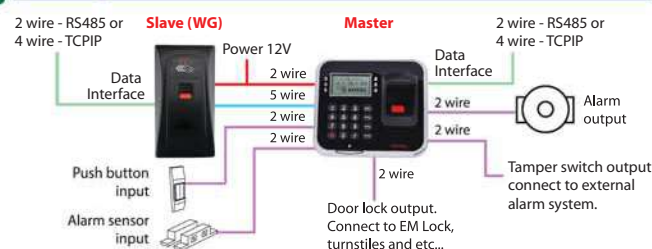
## AR837EF / AR881EF parameter

Card reading range	EM 5 - 8cm and Mifare 2 - 5 cm
Relay output	1 x Door relay output 1 x Alarm relay output
Door unlock time interval	Toggle, 0.1 to 600 sec
Alarm relay timer	Toggle, 1 to 600 sec
Communication interface	RS485 and TCP/IP
Serial port	RS485, 9600, N, 8, 1
Ethernet TCP/IP	10/100M Base T
Power consumption	10 to 18 VDC. Less than 5W.
Operating temperature	0° C to 50° C
AR837EF dimension & weight	128 x 147 x 65 mm (LxWxH), 520 g
AR881EF dimension & weight	151 x 81 x 73 mm (LxWxH), 330 g

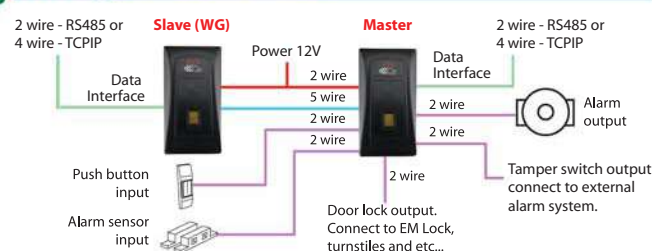
## Ordering info

Model No.	Description
AR837EF_OS	Optical scanner + EM125khz + Mifare 13.56MHz
AR837EF_CS	Capacitive scanner + EM125khz + Mifare 13.56MHz
AR881EF_OS	Optical scanner + EM125khz reader
AR881EF_CS	Capacitive scanner + EM125khz reader
AR881EF_OS_1356	Optical scanner + Mifare 13.56Mhz reader
AR881EF_CS_1356	Capacitive scanner + Mifare 13.56Mhz reader

## Wiring connection



## Wiring connection



## Accessories



Authorized dealer