

## F7

LEGIC Advant Technology Fingerprint Keypad Reader Enroller is an user friendly and It supports traditional wiegand output and also ACX scramble RS485 encryption output to ensure the data cannot be snooped by external device, totally solve the wiegand signal transmission problem.

Match-on-Card is the concept of both matching and storing fingerprints on a smart card. This establishes the physical presence of a cardholder and thereby facilitates a secure proof of identity. The matching takes a split second and is therefore both convenient and fast to use.

Smart cards are known for their tamper-proof environment. By both storing and matching a biometric fingerprint template on a smart card, the fingerprint not only acts as a pure PIN replacement, but becomes an integral part of the smart card; making use of the secure environment of the chip.

F7 Fingerprint Reader supports two authentication 1) Smart Card + Fingerprint and 2) Smart Card + Password at the same time. Traditional card + Password can serve for some un-recognized fingerprint template's user.



## FEATURES

- Fingerprint template on card, 512 bytes
- Support LEGIC Advant smart card technology
- High quality material reader cover and water proof design
- Keypad adopts touch sensor technology, overcome the membrane keypad problem
- Infra red light tamper design, overcome the mechanical defects
- Accept two authentication modes 1. Card + Fingerprint; 2. Card + Password at the same time
- Use configuration card to change reader or enroller mode
- Fingerprint enrollment on device, no PC software and database require
- Card number in any format, max. 64 bits length
- RED / Green / Blue or mixed color LED, user defined LED ON / OFF time interval
- Internal buzzer, user defined buzzer ON / OFF time interval
- Wiegand and Scramble RS485 dual output

## SPECIFICATION

F7 Fingerprint Keyad Reader Enroller (Template on Card)		
Model Number	97AL	
Card Type	ATC2048-MP	ATC4096-MP
Max. Template	2	3
Duress Alarm Template	NO	YES
Fingerprint Sensor	Optical, 20mm x 15mm	
Water Proof	IP65	
Card Number	Maximum 256 bits, depends on door access control card number length capacity, default is 64 bits	
Typical Read Range	ISO Card : 4.5cm+; Keyfob : 2.5cm+ Typical read range achieved in air; Different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required	
Response Time	Less than 1 second	
False Acceptance Rate	Less than 0.001% (Operation level = 3)	
False Reject Rate	Less than 1.0% (Operation level = 3)	
Reader Output	Wiegand format or ACX scramble RS485	
Reader Wires (10 wires)	Power, Ground, Wiegand D0, Wiegand D1, RS485(A), RS485(B), Green LED / ACK, Buzzer, Hold and shield wires (Pigtial) LAN Port for fingerprint template download	
Mounting	Mullion type, for door frame installation	
Visual Indicator	LED bar in RED / Green / Blue / Amber / Purple / White / Light Purple color, user defined LED ON / OFF time interval	
Audio Indicator	Internal buzzer, user defined beep sound ON / OFF time interval (ms)	
Keypad	Keypad text by mold injection, water proof touch sensor technology, 12 Key, 0 to 9, *, #	
Color	Black or White	
Dimension	150mm x 44mm x 36mm	
Product Weight	130g	
Operating Voltage	9-16 VDC	
Operating Current	Average 60mA DC, peak 250mA DC	
Operating Temperature	-20° C to +60° C	
Operating Humidity	10% to 90% relative humidity non-condensing	
Waterproof	IP65	
Housing Material	Polycarbonate	
Cable Distance	Wiegand interface: 500 feet (150 m), RS485 interface: 4000 feet (1200 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent	