

**F7** LEGIC Advant Technology Fingerprint Keypad Reader Enroller is a user-friendly and high-security physical access control reader. Its Wiegand output means the reader can directly connect to any Wiegand door access controller, while the ACX scramble RS485 output ensures the data cannot be snooped by external devices. This effectively resolves the Wiegand signal transmission issue.

Match-on-Card is the concept of matching and storing fingerprints in a smart card. This establishes the physical presence of a cardholder, thereby facilitating a secure proof of identity. The matching takes only a split second to complete.

Smart cards are known for their tamper-proof environment. By matching and storing a biometric fingerprint template in a smart card, the fingerprint acts as a PIN replacement and becomes an integral part of the smart card. The secure environment of the chip can thus be made use of.

F7 Fingerprint Reader supports two authentication methods 1) Smart Card + Fingerprint and 2) Smart Card + Password at the same time. If a fingerprint template of a user cannot be recognized, Traditional card + Password are also supported.

## FEATURES

- Fingerprint template in 512 bytes
- Support LEGIC Advant smart card technology
- Waterproof design, using high-quality materials to enhance reliability and longevity
- Touch sensor keypad, overcoming the membrane keypad problem
- Infrared light tamper design, overcoming the mechanical defects
- Accept two authentication methods: 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 required
- 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



## SPECIFICATIONS

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, depending on the 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, 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, waterproof touch sensor technology, 12 Keys, 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	