ZKTeco

FR1200

Multi-Factor Biometric Reader
For Seamless Security Access— OSDP Compatible

OSDP | RFID | Fingerprint | IP65 Waterproof & Dustproof | AES 128 Encryption

FR1200 is a biometric reader that supports multiple authentication methods, including fingerprint and RFID card verification.

With OSDP (Ver2.1.7) or ZK-RS485 communication protocol, it works with ZKTeco's biometric controller InBio Pro Plus and fingerprint access control terminal. This biometric reader also supports RFID card verification, and it is compatible with 125 kHz ID card (standard) and 13.56 MHz IC card (optional).

Equipped with the ZK Optical fingerprint sensor, the FR1200 captures high-resolution fingerprint images and converts them into secure fingerprint templates. These templates are transmitted securely via RS-485 communication to access control terminals or controllers. To ensure data integrity, the device uses AES128 encryption during transmission, with an option to disable encryption through software for flexible deployment based on user security needs.

The FR1200 supports OSDP (Ver2.1.7) and ZK-RS485 communication protocols, enabling seamless integration with ZKTeco's advanced access control systems, such as the InBio Pro Plus series and other fingerprint terminals. Its compatibility simplifies deployment across various security setups, providing a reliable and scalable solution for access control management.
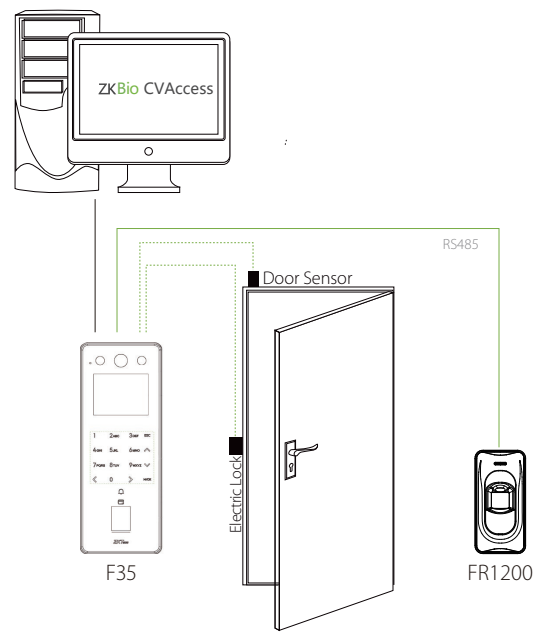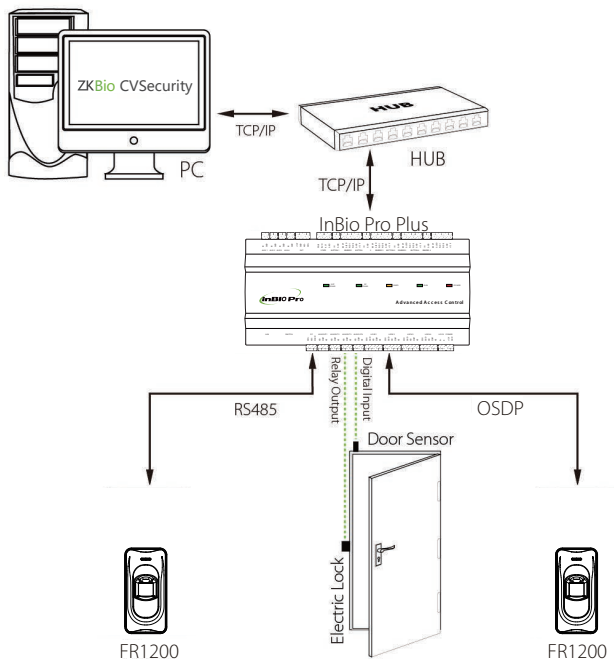
Features

- Multi-method authentication: Fingerprint and RFID card verification.

- Supports 125 kHz ID cards (standard) and 13.56 MHz IC cards (optional).

- IP65 rating for outdoor use.

- ZK Optical fingerprint sensor for precise biometric authentication.

- Secure data transmission with AES128 encryption (configurable).

- Compatible with OSDP (Ver2.1.7) and ZK-RS485 protocols.
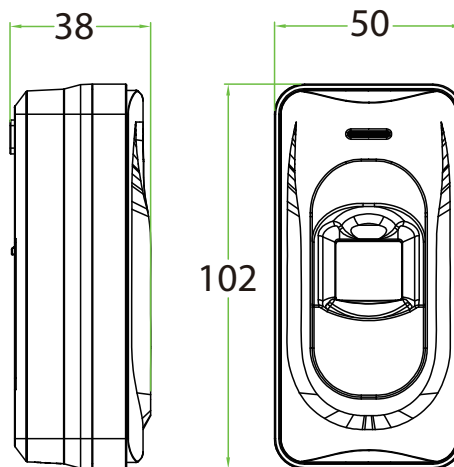
- Support wall mount and mullion mount.

Specifications

Model	FR1200
Hardware	Physical Keypad: NA Fingerprint Sensor: ZK Optical Sensor RFID Module: ID Standard, IC Optional
Authentication method	Fingerprint / Card
Card Type	ID Card@125 kHz (Standard) IC Card@13.56 MHz (Optional)
Biometric Verification Speed	<0.3s @ Fingerprint
Touchless Biometric Recognition Distance	< 5 cm @ Card
False Acceptance Rate (FAR) %	FAR≦ 0.0001%
False Rejection Rate (FRR) %	FRR≦ 0.01% ;
Biometric Algorithm	ZKFingerprint V10.0 (Default) / V13.0
Communication	RS485: ZKTeco RS485 *1/OSDP (Ver 2.1.7)
Visual Indicator	LED (Green= Standby; Verfication Successful) (Red= Verification Failed)
Audio Indicator	Beeper
Operating Environment	Indoor / Outdoor / Semi-Enclosed Area
Power Supply	9VDC to 24VDC
Operating Temperature	0°C to 45°C
Operating Humidity	10% to 90% RH (Non-condensing)
Dimensions	102 mm*50 mm*38 mm (L*W*H)
Gross Weight	0.22 Kg
Net Weight	0.19 Kg
Installation	Wall Mount and Mullion Mount
Housing Material	ABS Plastic
Ingress Protection Rating	IP65
Certifications	ISO14001, ISO9001, CE, FCC, RoHS

Configuration

Dimensions (mm)