

AccessGuard

Physical access control

Biometric
authentication

AccessGuard™ fingerprint recognition system provides strong authentication for physical access control applications. AccessGuard offers an easy and cost-effective solution to upgrade the user authentication part of existing access control systems with a minimum impact on administration and maintenance. AccessGuard is able to read access cards already in circulation as it features both a built-in proxy card reader (for HID compatible cards) and Wiegand or Clock/Data input from an external reader. With the highest level of system integrity and easy administration, AccessGuard is the perfect fingerprint reader to protect highly sensitive areas.



Guardware

THE FINGERPRINT COMPANY™

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Key features

- **Biometric upgrade for existing access control systems**
When deployed parallel with an existing access control system, AccessGuard reader provides a biometric upgrade to knowledge- or token-based authentication – a high impact on authentication security with low impact on the way you administer access to your facilities.
- **Live finger detection technology**
Guardware's active biosensor rejects finger replicas that may compromise the system. The patented biosensor performs static and dynamic measurements, and blocks the authentication process if presented with a fake (e.g. silicon, rubber, or gelatin) finger.
- **Secure, two-component approach**
In AccessGuard's optional two-component setup no relays, unencrypted communication cables or biometric data are present in the fingerprint reader, exposed outside the door. These sensitive components are placed separately, in a controller located inside the secured area.
- **Durable optical fingerprint scanner**
The large-surface, high-resolution optical scanner produces high-quality images containing more details of the fingerprint, resulting in highly reliable performance with low error rates. The scratch-resistant prism and the robust chassis make AccessGuard a durable access control device.
- **X-factor authentication**
Guardware's advanced image processing technology and sophisticated fingerprint matching algorithms enable personal identification based on the fingerprint only. Two- or three-factor authentication using a proxy card and/or a PIN is available for added security.
- **Fault-tolerant client/server architecture**
AccessGuard is designed for a networked environment, but it can operate in off-line mode as well. As user data are replicated and distributed to each access point, AccessGuard tolerates server and network breakdowns without interrupting the flow of users. Its large internal storage capacity allows extensive periods of standalone operation without access log overflow.
- **Easy-to-use access management system**
AccessGuard Authentication Server offers flexible yet simple administration of authentication options when AccessGuard is used as a reader for third-party access control systems. AccessGuard Security Server is offered as a software add-on, which enables AccessGuard to function as a simple access control system for small and medium-sized companies demanding basic access control functionality.

Specifications

••••• Physical dimensions:	180(W) × 120(H) × 110(D) mm
Scanner surface:	20 × 24 mm
Image resolution:	500 dpi
Tolerance of finger positioning:	± 45° rotation, ± 5 mm off-center placement
Display:	128 × 32 pixel backlit graphical LCD
Keypad:	15 key backlit numeric keypad
Proxy card reader:	HID Prox
Communication interfaces:	RS-485, 10Base-T Ethernet (UTP), Wiegand, Clock/Data
Inputs/outputs:	3 opto-isolated inputs, 3 relay outputs
Power consumption:	max. 400 mA @ 12 V from external power supply

Performance

••••• Internal storage capacities:	20,000 fingerprint templates + 20,000 transaction records
Enrollment time:	< 5 seconds/finger
Typical authentication time:	< 2 seconds
False acceptance rate (FAR):	< 1:1,000,000
False rejection rate (FRR):	< 1:100 (experienced users)

System requirements

- 200 MHz Pentium or compatible processor, 128 MB RAM, UTP network
Windows NT 4.0, Windows 2000 or Windows XP

Model overview

- AG-IN-20 AccessGuard All-In-One Reader
- AG-IF-20 AccessGuard Front Reader (APSC or All-In-One Reader required)
- AG-AP-00 AccessGuard APSC (Access Point Smart Controller)
- AG-ES-20 Enrollment Station

