



MORPHOACCESS™

Fingerprint identification for physical access control

- 1:1 Authentication & 1:N identification
- Multi-factor authentication
- Plug & play solution for existing systems
- Easy integration in access control and time and attendance systems
- Optional contactless card reader
- Standalone or networked operation



Sagem Défense Sécurité
SAFRAN Group



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Most physical access security systems in use today are based upon tokens such as magnetic cards, identification numbers, and proximity cards. Because of their inability to detect false acceptance, they are sources of frequent security breaches. People can enter these systems with someone else's token. Now you can eliminate this type of security problem with the MorphoAccess™.

Developed and produced by Sagem, world leader in fingerprint identification systems, the MorphoAccess™ is a fingerprint access device that enhances the security systems of physical access control. The MorphoAccess™ terminals can be configured in two operating modes, time & attendance or access control. Depending on your needs, you can choose the MorphoAccess™ version which perfectly meets your requirement. The MorphoAccess™ range comprises the following versions:

• **The MorphoAccess™ 200/300 versions** exclusively operate in fingerprint identification mode. They offer a fingerprint storage capacity of 2 templates per person for up to 800 persons with the MA200, and 48,000 persons with the MA300. With the MA300 versions, the database is divided into 16 sub-databases of 3,000 persons each and the keypad is used to select the appropriate one. The identification mode is convenient since it does

not require to use a badge.

• **The MorphoAccess™ 220/320 versions** include a contactless card reader compatible with the MIFARE® technology. They authenticate card holders by matching their fingerprints against the templates stored in their card or in the terminal. Multi-factor authentication is also possible when the biometric verification is combined with a password check.

• Depending on what you present to the terminal (your finger or your card), **the MorphoAccess™ Pro versions** perform identifications or verifications. Besides, it is the solution you need if your system manages both employees who are identified with their fingerprints, and visitors whose fingerprints have not been captured and thus, are authorised to enter after the presentation of a badge only. The whole MorphoAccess™ range offers standard interfaces such as Wiegand, Dataclock, RS.422 or Ethernet. Utility programmes are also provided to customise the device: language and messages etc...

In addition to this range of terminals, we propose the MorphoAccess™ Enrolment and Management System (MEMS), a complete solution for centralised management in existing systems or standalone modes. For more information, please refer to our MEMS brochure.

Technical specifications

- 500 dpi finger scanner, 22 x 24 mm
- Backlit LCD graphical display, 136 x 34 pixels
- Backlit keypad with 12 keys (0 to 9, *, #)
- + 4 programmable function keys
- Authentication < 1s - Identification < 2s (for a database of 3000 people)
- 3 communications ports : Wiegand (any bit) or dataclock input & output, RS.422, RS.232, Ethernet 10BT
- Indoor equipment, 0 to +40 °C
- Compliance with: EN60068, EN55022, EN55082, FCC15, UL1950, CE Approval, UL 94, V0 material
- Power: 12 VDC / 30W
- Dimensions & weight: L: 145 mm H: 160 mm D: 75 mm, W: 675 g
- Connection by internal termination block with locking screw
- Integrated MIFARE® contactless card reader (MIFARE® 1K and 4K)
- On relay (for standalone usage)

Software components

- **MorphoImaging™**: for the image quality optimization, during acquisition and preprocessing.
- **MorphoSoft™**: for the biometric functions necessary to template extraction (processing of a fingerprint image) and fingerprint verification or identification.

	MA 200	MA220	MA 220 PRO	MA 320 PRO	MA 300
Contactless reader	No	MIFARE®	MIFARE®	MIFARE®	No
Database size	800	N/A	800	48,000	48,000
Operation	Identification	Verification	Verification & Identification		Identification
Usage	Standalone or Networked			Networked	

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