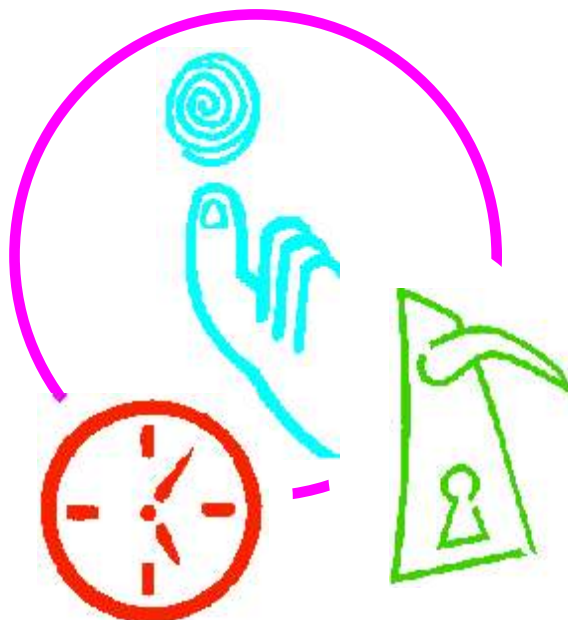


Biometric Solutions



MORPHOACCESS™

Ma100

NEW



- Compact biometric terminal
- Plug & play solution for existing system
- 1:1 Authentication & 1:N identification
- Standalone or networked operation
- Optional ISO14443 contactless card reader
- Multi-factor authentication

Technical Specification

- 500 dpi optical sensor, 14x20mm
- 1:1 Verification time < 1s
- Identification time (1000 templates) < 1,5s
- Adjustable FAR according to security requirements
- Manage up to **500 users, two templates** each in identification mode
- Capable of people identification and verification at the same time
- Buzzer and Multi color LEDs and - Communication port for ID sending :Customizable Wiegand output, RS .485, Data & Clock, Ethernet (10/100 Base T)
- Relay one contact
- Tamper switch & secured screw
- Terminal management through TCP/IP or USB Key (on option). Management includes terminal configuration, firmware upgrade, log retrieval, biometric database operations etc...
- MA 120 and MA120 D supports ISO14443-A MIFARE and DESFIRE cards respectively .
- Operating temperature : -10° to +50°C
- IP53
- Compliance with EN60068, EN55022 , FCC part 15 and EN55024, EN300330-1 and 2, CE, UL 950
- Supply Voltage : 9V..16V (250ma @ 12V)
- Dimensions : 142mm x 84mm x 46mm
- Embedded Software components : MorphoImaging™ and MorphoSoft™Embedded

The MorphoAccess™ 100 Series features a new range of **indoor / outdoor** biometric and contactless smart card terminals available at **low cost**.

The MA100 are compact, **easy to install** and compatible with legacy or new access control systems.

The MA100 model exclusively operates in identification mode. It offers capacity storage of **2 biometric templates per person for up to 500 individuals**.

In addition to the **identification** mode, the MA120 model also offers the possibility to read contactless smart card in order to perform 1:1 **authentication**

The MA120 supports **MIFARE 1K** and **4K** contactless smart cards.

The MA120D supports **DESFIRE** contactless smartcard.

The terminal can be either used **standalone** mode or **networked**.



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	MA100	MA110	MA120	MA120D
Contactless reader	NO	YES	YES	YES
Contactless card	NO	I-Class (HID)	MIFARE 1K or 4K	DESFIRE cards
Operation	1: 500 users	1:1 & 1: 500 ID	1:1 & 1: 500 ID	1:1

MA200/300

- 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



Fingerprint identification for physical access control

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

- MorphoMaging™: 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.



OMA200/300

- Weatherised for outdoor use
- 1:1 authentication & 1:N identification
- Local and remote database management
- LAN and serial link connection
- Standalone or networked operation



Sagem introduces the weatherised version of the unit, the Outdoor MorphoAccess™ (OMA) which has been developed specifically for outdoor applications and includes a ruggedized/weather-resistant case. This unit comprises all of the features and options available with the indoor model.

Technical Specifications

MorphoAccess™ Unit

- Visor protects display and sensor
- 500 dpi resolution finger scanner, 22mm x 24mm
- Backlit LCD graphical display, 136 x 34 pixels
- Backlit keypad with 12 keys (0 to 9, *, #) plus four programmable function keys.

Memory

- 8 MB RAM; 4 MB for operating system/libraries/ applications
- Optional 32 MB for data storage.

Local database storage

- OMA 200: Authentication (1:1) & Identification (1:N) for an 800 person database
- OMA 300: Authentication (1:1) & Identification (1:N) for 16 databases of 3000 persons each
- OMA 220 (with an integrated MIFARE® card reader): Authentication against the biometric data contained in a contactless card.

Communication ports

- Wiegand and data clock ISO-2: input & output
- RS422
- Ethernet 10BT.

Power consumption

- 12 VDC 2.5 amp minimum.

Environmental specifications

- Operating temperature: - 10°C to + 45°C
- Relative humidity: 0% to 90%, non-condensing
- Fluid ingress and dust protection: Rated for IP 65.

Mechanical/Communication ports

- Wiegand and data clock ISO-2: input & output
- RS422
- Ethernet 10BT.

Power consumption

- 12 VDC 2.5 amp minimum.

Environmental specifications

- Operating temperature: - 10°C to + 45°C
- Relative humidity: 0% to 90%, non-condensing
- Fluid ingress and dust protection: Rated for IP 65.

Mechanical

- Length: 218 mm, Height: 289 mm, Depth: 99 mm
- Weight: 2 kg.

Certifications

- FCC Class B part 15
- UL and cUL listed
- IP65 rated
- CE compliant.



	Identification 1:N	Authentication 1:1 Mifare ®	Autonomus	Lan	Fake Finger
MORPHOACCES					
MA / OMA 200	800 People.		X	X	
MA / OMA 300	48.000 People.			X	
MA / OMA 220	no memory	X	X	X	
MA / OMA 220 PRO	800 People.	X	X	X	
MA / OMA 320 PRO	48.000 People.	X		X	
MA / OMA 221	no memory	X	X	X	X
MA / OMA 221PRO	800 People.	X	X	X	X



MEMS



MORPHOACCESS™ ENROLMENT MANAGEMENT SYSTEM

The MorphoAccess™ Enrolment and Management System (MEMS) offers the possibility to integrate a biometric solution in physical access control systems, at low cost and with very few modifications. The MEMS works with the MorphoAccess™ terminals, a wide range of physical access control devices capable of recognising fingerprints. All MorphoAccess™ terminals offer standard communication interfaces compatible with existing access control systems: Wiegand, DataClock, RS.232, RS.422 or TCP/IP.



- Fingerprint capture
- Database management
- Interface with Sagem MorphoAccess™
- Double identity detection (1:N identification)
- Optional contactless card encoding
- Optional client/server architecture

- Connected with the MorphoSmart™, the MEMS enables to perform consolidated and optimised fingerprint captures.
- The MEMS controls the MorphoAccess™ terminals which are connected to MEMS, generates reports on people's passage and synchronises the MorphoAccess™ database with the central server database.
- In option, the MEMS can be based on a client/server architecture which provides the ability to centralise the database management and to dispatch the enrolment process to the clients.

MEMS key features

- Local or remote fingerprint enrolment thanks to the MorphoSmart™ 100 USB fingerprint sensor.
- Database: Microsoft Access or SQL server
- Client/server mode available with SQL server
- Administrator and operator right management
- Time zone management
- MorphoAccess™ terminals management:
 - Database synchronisation
 - Log retrieval
- Log includes:
 - People passage: ID, date and time
 - Time & attendance mode
- Multiple terminal group management
- Report generation.
- Biometric features
 - Live controls related to the image quality and the finger positioning during enrolment
 - Robust enrolment thanks to the consolidation of biometric template over three images
 - Ability to tune the false acceptance rate according to the application security requirements
 - Duplicate search during enrolment in order to avoid multiple identify referring to the same individual (Active MorphoKit™ Matcher)
- Portrait capture
 - The MorphoPak™ package allows portrait capture with standard web cams and a specific camera.
- Card features
 - Personalisation: the MEMS supports various kinds of printer
 - Encoding: MIFARE® contactless smart cards are encoded with people credentials to allow 1:1 verification.



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