MorphoAccess® SIGMA Lite Series

Quick User Guide

2015_2000005700-V5

MorphoAccess® SIGMA Lite+   **MorphoAccess® SIGMA Lite**

All descriptions, illustrations, and specifications in this brochure should be considered approximate and may relate to optional equipment or feature

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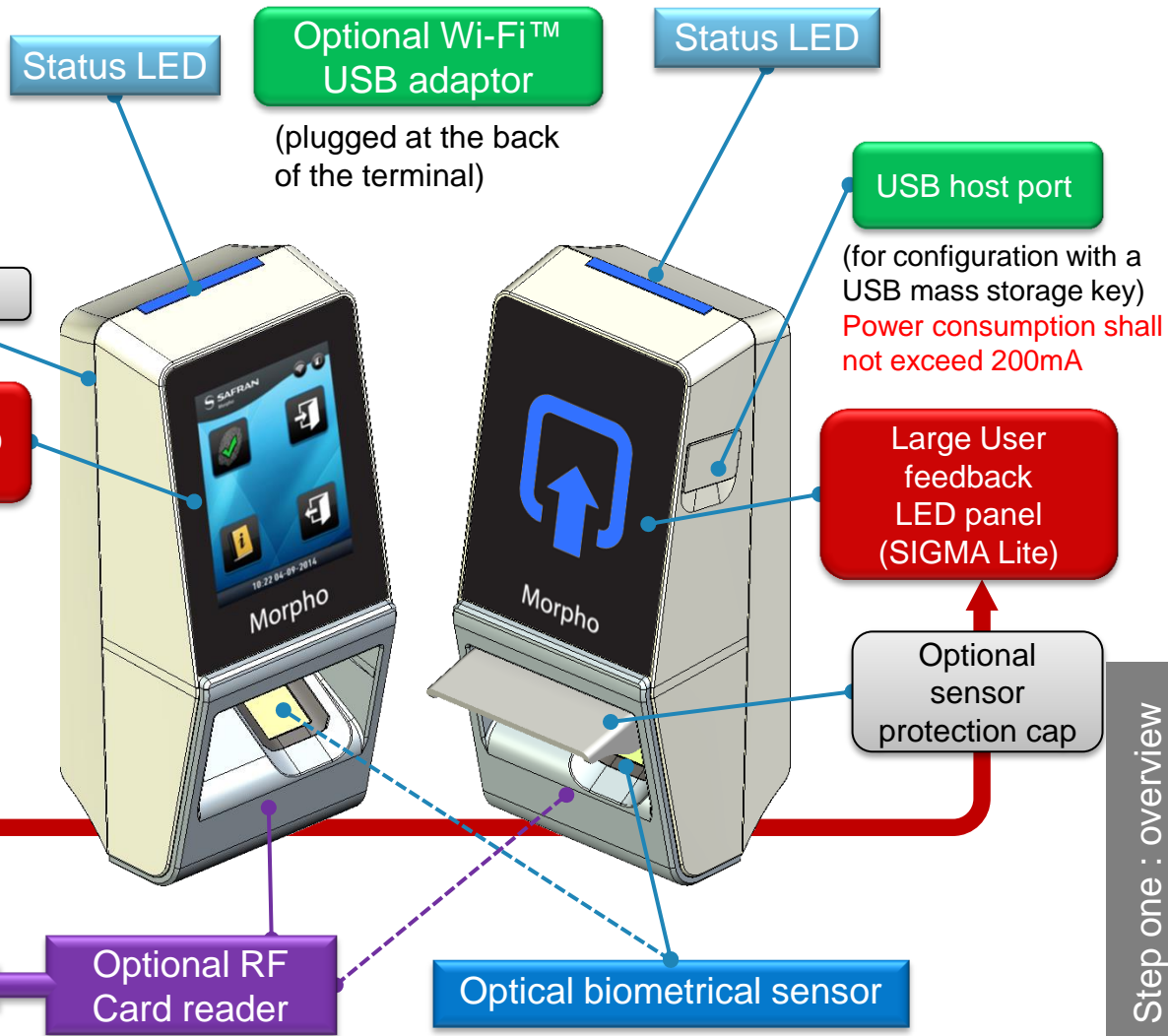Quick User Guide - 2015_2000005700-V5

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Product Overview

The MorphoAccess® SIGMA Lite Series terminal has a simple and ergonomic man-machine interface designed for access control and Time & Attendance, with fingerprint recognition, contactless card authentication and PIN authentication options.

Embedded web server (configuration & enrolment)

Terminal designation

MorphoAccess® SIGMA

Lite+	(none)	
	ICLASS	
Lite	MULTI	
	PROX	

Optional 2,8" touchscreen LCD (SIGMA Lite+)

HID® iCLASS™ 13,56MHz (SIGMA … ICLASS)
Or MIFARE™ DESFire ™ 13,56MHz (SIGMA .. MULTI)
Or HID® Prox ® 125kHz (SIGMA .. PROX)

Optional RF Card reader

Status LED

Optional Wi-Fi™ USB adaptor
(plugged at the back of the terminal)

Status LED

USB host port
(for configuration with a USB mass storage key)
Power consumption shall not exceed 200mA

Buzzer

Large User feedback LED panel (SIGMA Lite)

Optional sensor protection cap

Optical biometrical sensor

Step one : overview

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MorphoAccess® SIGMA Lite Checklist

Product packaging checklist:

QTY	ITEM
1	MorphoAccess® SIGMA Lite or Lite+ terminal
1	Back door equipped with cables and screws
1	Protection Accessory (optional)
1	Wall Mounting Plate
1	Documentation package

Lite   Lite+
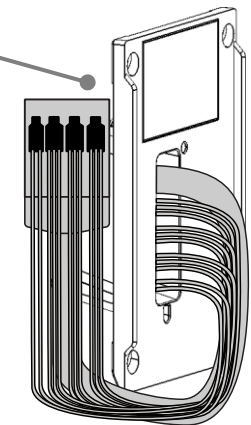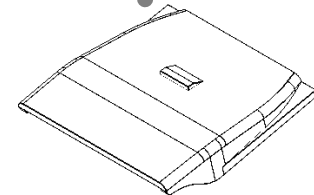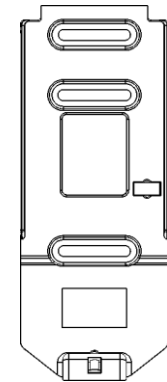
Electronic documentation is provided in Adobe® Acrobat® format (PDF). Adobe® Acrobat® Reader is available at http://www.adobe.com.

Step one : overview

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MorphoAccess® SIGMA Lite terminal Implementation

To secure an access, Morpho recommends installing the MorphoAccess® SIGMA Lite Series terminal as a part of a typical Access Control system, which consists of the components described below.
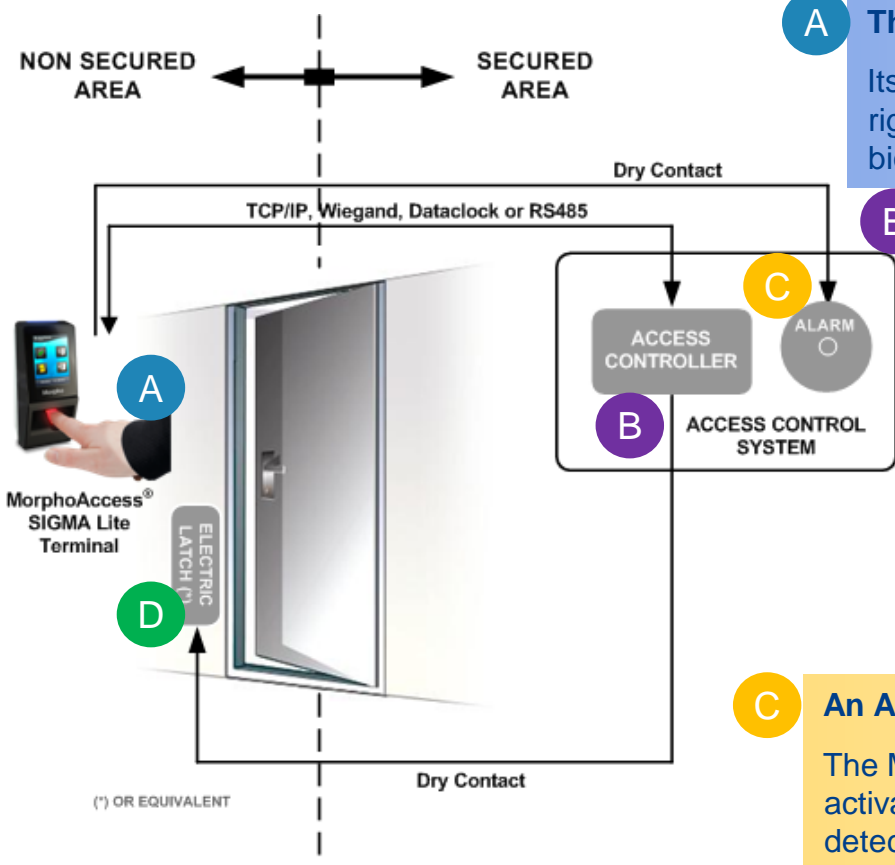
A **The MorphoAccess® SIGMA Lite Series terminal**

Its role is to process the access request from the user. It performs access right checks using one-to-many biometric identification or one-to-one biometric verification, and/or RF card authentication, and/or PIN check.

B **An Access Controller (3rd party product)**

The MorphoAccess® terminal interfaces with an Access Controller (using TCP/IP, Wiegand, Data Clock or RS485 protocol):

➔ After access request, the MorphoAccess® terminal sends the result of user's access rights to the Access Controller (this message contains at least the User ID)

➔ The Access Controller performs additional checks, and returns the final decision (access granted/denied) to the MorphoAccess® terminal (which displays the result to the user), and to the door controller which opens the door (if the access has been granted).

C **An Alarm (3rd party product)**

The MorphoAccess® terminal sends a message to the Access Controller, to activate the Alarm as soon as a malicious activity, such as tamper or pulling, is detected

D **A Door Electric Latch or equivalent (3rd party product)**

The Access Controller sends a command to activate the latch if the access is granted (i.e. if the individual's User ID is listed in the Controller authorized user List). Control of the latch is made through a dry contact..

Step one : overview

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Typical Access Control Process

On Access Request, the terminal checks user's access rights using a biometric check.

If the result of the check is successful (user recognized), a message is sent to the Central Access Controller for additional access rights check.

If the user is allowed to access to the protected zone, the central access controller returns an "access granted" message to the terminal and a "open" command to the gate controller.

Access Granted!

ACCESS DENIED

User's fingerprints must be stored in the terminal database or in contactless card, to enable biometric check.

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MorphoAccess® SIGMA Lite Access Control Modes

The terminal can be configured in one of the modes described in the table below

	Identification	Authentication	Multifactor	Proxy
Access control application	Application that runs on the terminal when it starts.	Application that runs on the terminal when it starts.	Application that runs on the terminal when it starts.	Remote application that controls the terminal through network commands
Access control triggering event	A user places a finger on the biometric sensor.	A user places a contactless card in front of the reader. (*)	Both Identification and Authentication triggers are enabled.	Triggering events are selected by the remote application
Biometric check (if enabled)	The user's captured fingerprint is matched against all fingerprints in the terminal database.	The user's captured fingerprint is matched against their reference fingerprint. (**)	As per Identification or Authentication, depending on the triggering event	Selected by the remote application
Decision to display result signal to user	By Identification standalone application	By Authentication standalone application	By running standalone application	By remote application

(*) or the user enter their Identifier on the keypad, or a Wiegand frame is received from an external device
(**) stored on the contactless card or in the user record in the terminal's local database

Step one : overview

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Deployment Environments

Operating temperature	-10° to + 55 ° C (14° to 131° F)
Operating humidity	10 % < RH < 80 % (non condensing)
Storage temperature	-25° to + 70 ° C (-13° to 158° F)
Storage humidity	5% < RH < 95 %
IP code	IP65 rated, once backdoor fixed with the 4 screws

General precautions

➢ Do not expose the terminal to extreme temperatures.
➢ When the environment is very dry, avoid synthetic carpeting near the MorphoAccess® SIGMA Lite terminal, to reduce the risk of unwanted electrostatic discharge.
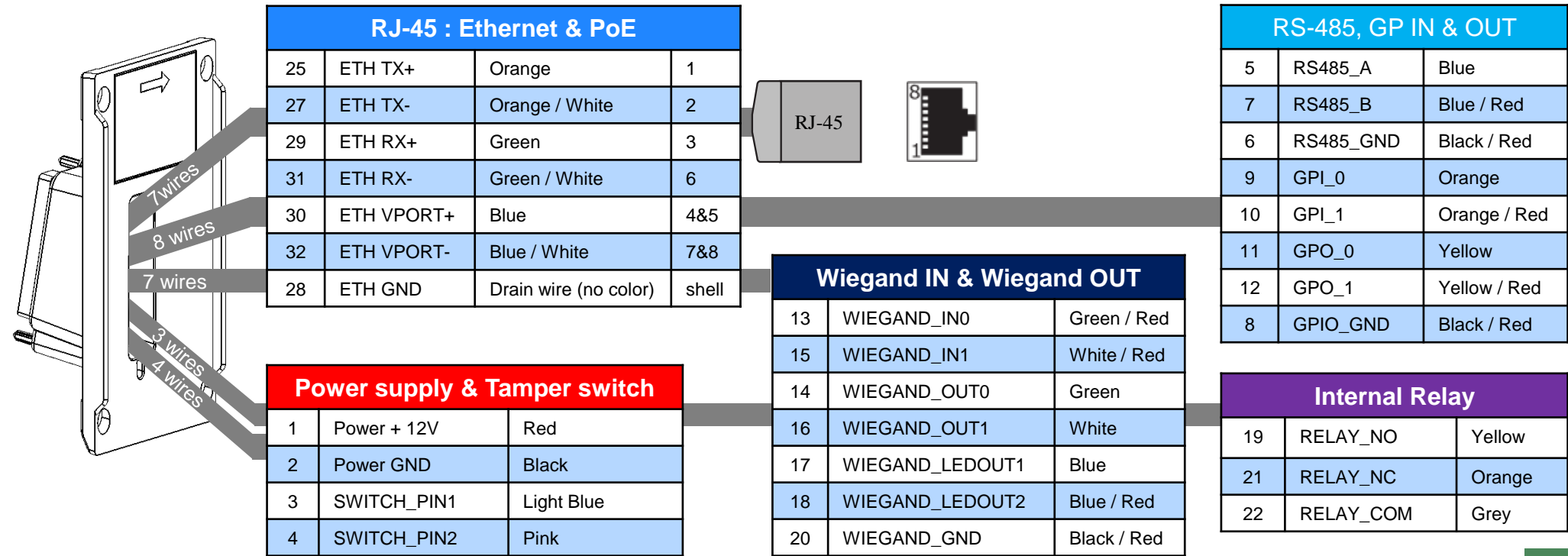
Areas containing combustibles

➢ Do not install the terminal in the vicinity of gas stations or any other installation containing flammable or combustible gases or materials. The terminal is not designed to be intrinsically safe.

The terminal should be installed in controlled lighting conditions

➢ Avoid biometric sensor exposure to a blinking light
➢ Avoid direct exposure of the biometric sensor to sunlight or to UV lights.

Step one : overview

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Wiring Overview

RJ-45 : Ethernet & PoE

25	ETH TX+	Orange	1
27	ETH TX-	Orange / White	2
29	ETH RX+	Green	3
31	ETH RX-	Green / White	6
30	ETH VPORT+	Blue	4&5
32	ETH VPORT-	Blue / White	7&8
28	ETH GND	Drain wire (no color)	shell

RJ-45

RS-485, GP IN & OUT

5	RS485_A	Blue
7	RS485_B	Blue / Red
6	RS485_GND	Black / Red
9	GPI_0	Orange
10	GPI_1	Orange / Red
11	GPO_0	Yellow
12	GPO_1	Yellow / Red
8	GPIO_GND	Black / Red

Wiegand IN & Wiegand OUT

13	WIEGAND_IN0	Green / Red
15	WIEGAND_IN1	White / Red
14	WIEGAND_OUT0	Green
16	WIEGAND_OUT1	White
17	WIEGAND_LEDOUT1	Blue
18	WIEGAND_LEDOUT2	Blue / Red
20	WIEGAND_GND	Black / Red

Power supply & Tamper switch

1	Power + 12V	Red
2	Power GND	Black
3	SWITCH_PIN1	Light Blue
4	SWITCH_PIN2	Pink

Internal Relay

19	RELAY_NO	Yellow
21	RELAY_NC	Orange
22	RELAY_COM	Grey

7 wires
8 wires
7 wires
3 wires
4 wires

All connections of the terminal are of SELV (Safety Electrical Low Voltage) type.

Power supply from electrical source shall be switched off before starting the installation.

Before proceeding, make sure that the person in charge of installation and connections, is properly connected to earth, in order to prevent Electrostatic Discharges (ESD).

Backup of the Date/Time of the terminal: the volatile settings (such as date/time) of the terminal are protected against power failure, by a dedicated component during a least 24 hours (at 25°C) without external power supply.

Step two : wiring

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Power Wiring
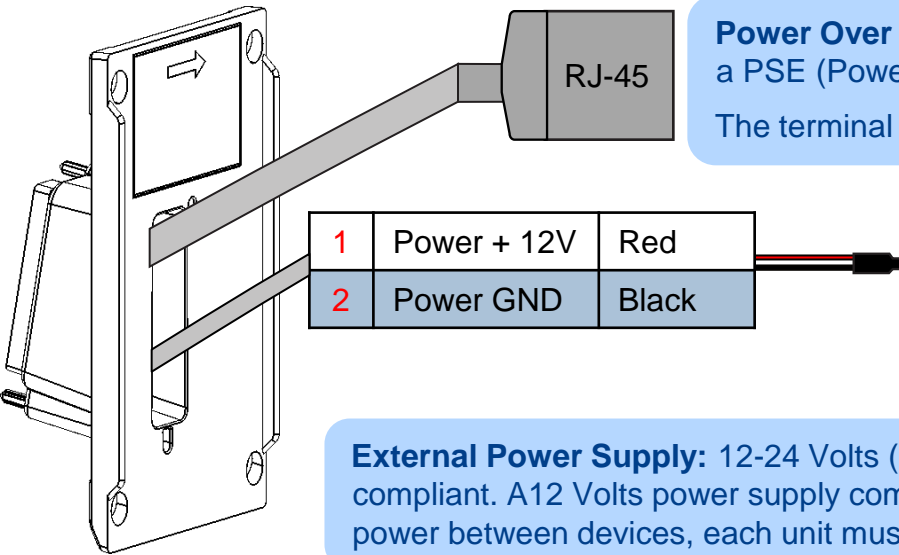
Power Over Ethernet (POE): power can be provided through RJ-45 connector using a PSE (Power Sourcing Equipment) **IEEE 802.3af or IEEE802.3at type 1** compliant.

The terminal is a Class 0 (15.4W) PD (Powered Device).

1	Power + 12V	Red
2	Power GND	Black

PoE Injector Specs
➢ Output Voltage: 48VDC
➢ Output Current: 0.32A
➢ Power: 15.36W

External Power Supply: 12-24 Volts (regulated and filtered) 1 Amp min @12V, CEE/EEC EN60950 standard compliant. A12 Volts power supply compliant with SIA's Wiegand standard will also be suitable. If sharing power between devices, each unit must receive 1A (e.g. two units would require a 12vDC, 2A supply).

A battery backup or uninterrupted power supply (UPS) with built-in surge protection is recommended.

Morpho recommends using a gauge AWG20 for 12V power supply.

The voltage measured on the product block connector of the terminal must be equal to 12V-24V (-15% / +10%).

The table at the right, shows the maximum voltage drop between the power source and the terminal, depending on the length of the cable.
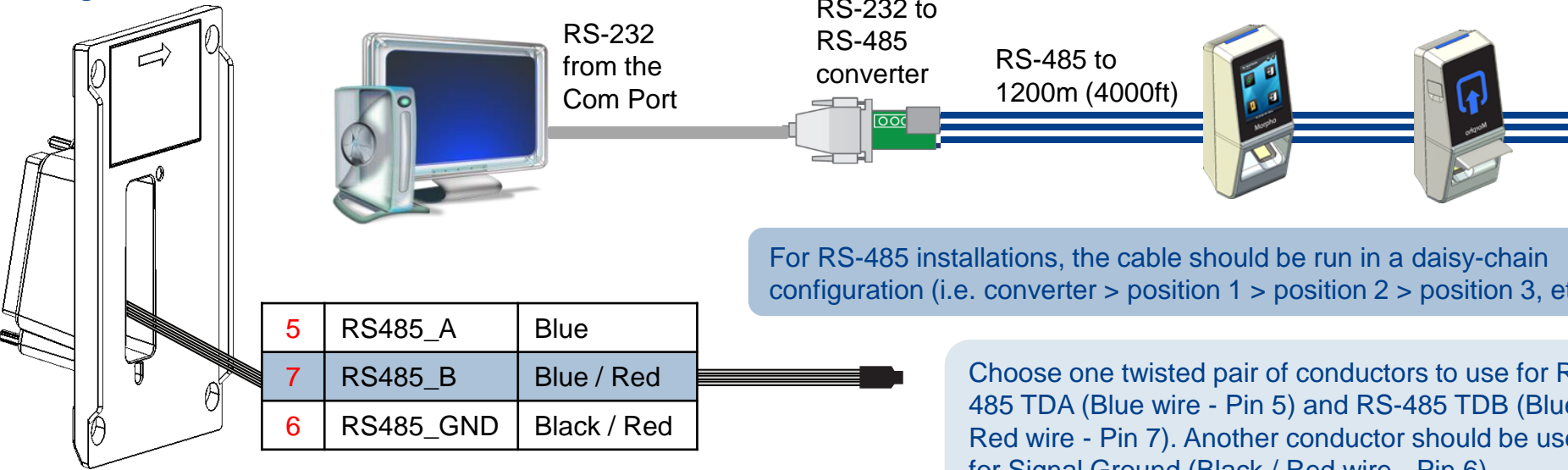
Gauge AWG	Diameter (mm)	Maximum drop voltage (V)		
		at 1m	at 5m	at 10m
20	0.81	0.03	0.17	0.33
22	0.64	0.05	0.26	0.53
24	0.51	0.08	0.42	0.84

WARNING: Under powering may cause memory and data corruption; over powering may cause hardware damage. Both of these situations will void the warranty

Step two : wiring

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RS-485 Communication

Wiring Block

RS-232 from the Com Port

RS-232 to RS-485 converter

RS-485 to 1200m (4000ft)

5	RS485_A	Blue
7	RS485_B	Blue / Red
6	RS485_GND	Black / Red

For RS-485 installations, the cable should be run in a daisy-chain configuration (i.e. converter > position 1 > position 2 > position 3, etc.).

Choose one twisted pair of conductors to use for RS-485 TDA (Blue wire - Pin 5) and RS-485 TDB (Blue / Red wire - Pin 7). Another conductor should be used for Signal Ground (Black / Red wire - Pin 6).

Use CAT-5 UTP (or better) cable (shielded recommended) with a characteristic impedance of 120 ohms.

AWG 24 should be the minimum wire gauge used.

Choose a RS-232 to RS-485 converter that supports Sense Data to switch from Send to Receive mode.

IMPORTANT:

➢ A maximum of 31 devices may be installed on the same line.

➢ The maximum total cable length is 4000 ft. (1200m).

➢ The cable must be dedicated to this installation and not used for any other purpose

Step three : communications

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Ethernet and Wireless LAN
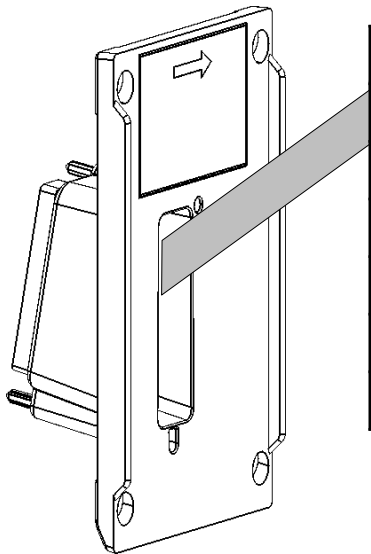
25	ETH TX+	Orange	1
27	ETH TX-	Orange / White	2
29	ETH RX+	Green	3
31	ETH RX-	Green / White	6
30	ETH VPORT+	Blue	4 & 5
32	ETH VPORT-	Blue / White	7 & 8
28	ETH GND	Drain wire (no color)	Shell

RJ-45

Wireless

LAN Ethernet

Management station
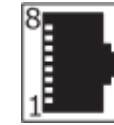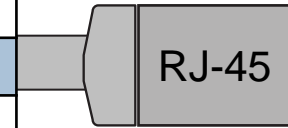
Use a category 5 shielding cable (120 Ohms) or better. It is strongly recommended to insert a repeater unit every 90m.

DHCP is enabled by default on MorphoAccess® SIGMA Lite terminals (factory setting).
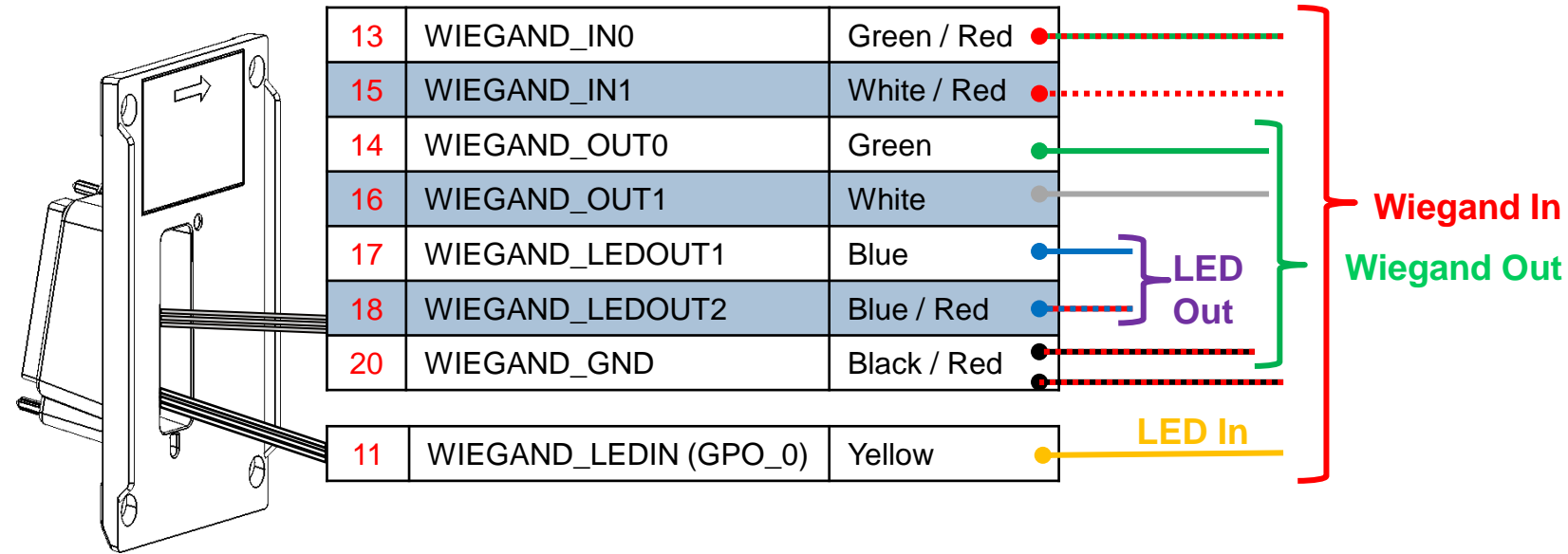
Terminal Block Ethernet connection
➔ Extreme care must be taken while connecting Ethernet wire to the block board since low quality connection may strongly impact Ethernet signal sensibility.
➔ Connect Rx+ and Rx- with the same twisted-pair wire (and to do the same with Tx+/Tx- and the other twisted-pair wire).
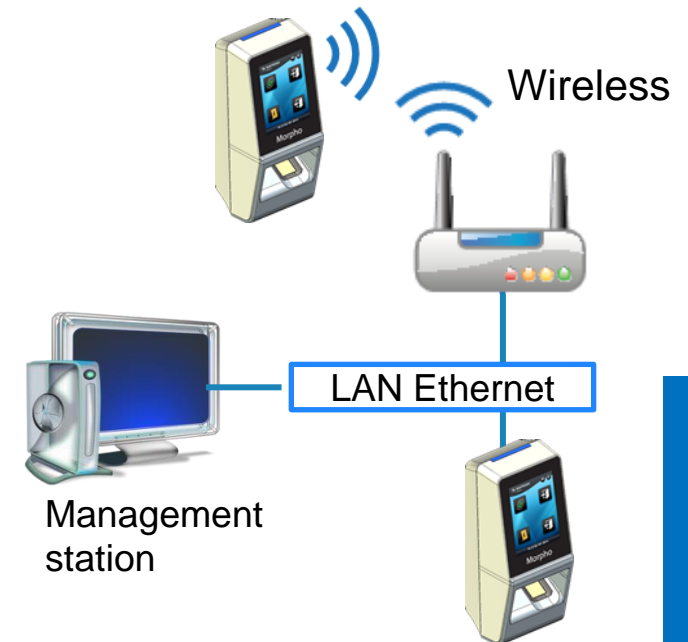
WLAN option
Morpho wireless enabled devices support 802.11b and 802.11g standards. WEP Open, WPA and WPA2 are supported.

Step three : communications

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Wiegand Communication

13	WIEGAND_IN0	Green / Red	Wiegand In
15	WIEGAND_IN1	White / Red	
14	WIEGAND_OUT0	Green	Wiegand Out
16	WIEGAND_OUT1	White	
17	WIEGAND_LEDOUT1	Blue	LED Out
18	WIEGAND_LEDOUT2	Blue / Red	
20	WIEGAND_GND	Black / Red	
11	WIEGAND_LEDIN (GPO_0)	Yellow	LED In

Three-conductor wire (shielded recommended) is required for Data 0, Data 1, and WGND.

Use 18-22 AWG cable in a homerun configuration from each unit to the Access Control Panel (ACP).

➢ Connect **WIEGAND_OUT0** (Green wire – Pin 14) to ACP Data 0,
➢ Connect **WIEGAND_OUT1** (White wire – Pin 16) to ACP Data 1,
➢ Connect **WIEGAND_GND** (Black / Read wire – Pin 20) to ACP reader common (0vDC).

For 18 AWG, the maximum cable distance is 500 ft. (150m); for 20 AWG, the maximum is 300 ft. (90m); for 22 AWG, the maximum is 200 ft. (60m).

All controller output shall be open drain or 5V+/-5%

Step three : communications

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Wiegand Communication (continued)

Important

By default, the Wiegand output format is not enabled.
Wiegand output must be configured before connecting to the ACP.

Note

On installation, the system administrator will be prompted to select either a pre-existing Wiegand frame format or create a custom format, and upload it to the unit before the first use.
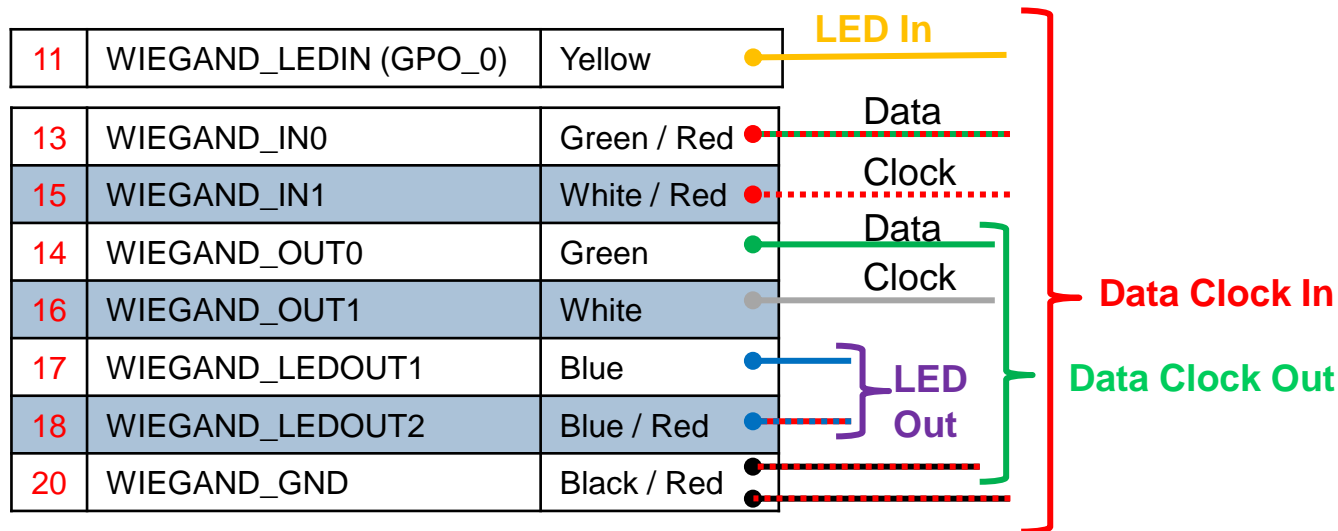
Data Clock

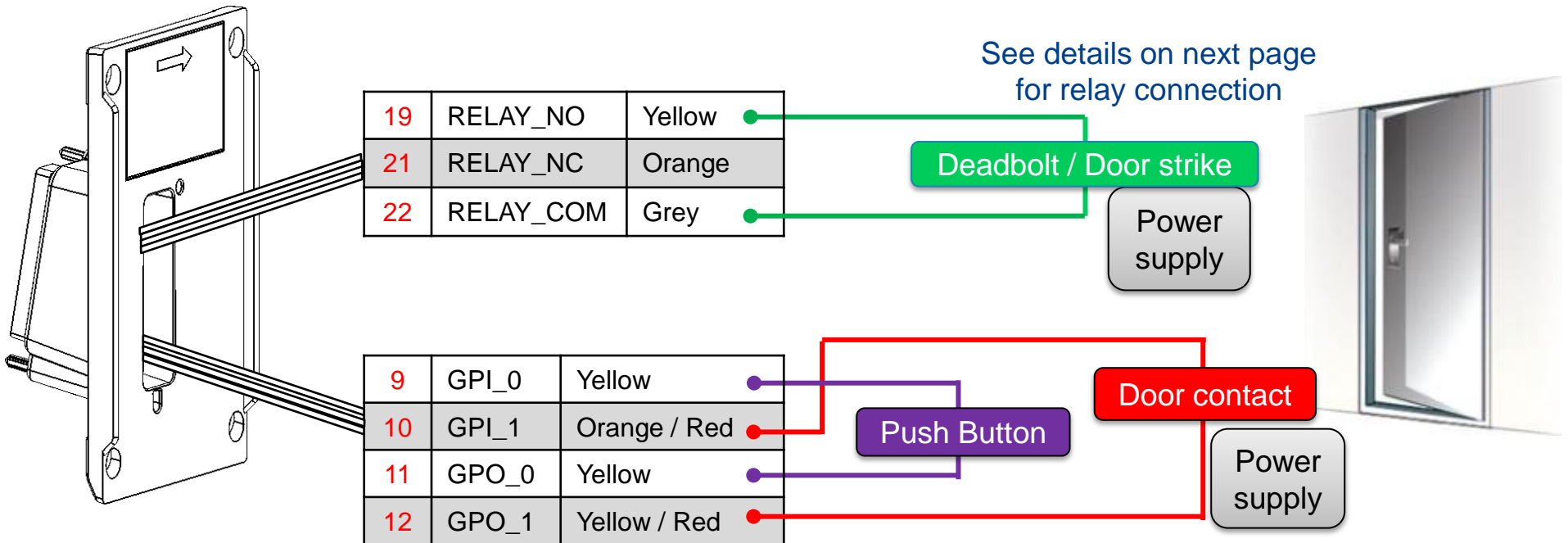The Wiegand port also supports the Clock & Data protocol. The wiring is described below.

Example Format Information

Type: **Standard 26-bit**

➢ Alt Site Code and Fail Site Code Range: **0-255**

➢ Template ID Number Range: **1-65535**

➢ Extended ID Number Range: **N/A**

➢ ID Start Bit: 9

➢ Length of ID: 16

➢ Site Code Start bit: 1

➢ Length of Site Code: 8

➢ Start Bit length : 0

11	WIEGAND_LEDIN (GPO_0)	Yellow
13	WIEGAND_IN0	Green / Red
15	WIEGAND_IN1	White / Red
14	WIEGAND_OUT0	Green
16	WIEGAND_OUT1	White
17	WIEGAND_LEDOUT1	Blue
18	WIEGAND_LEDOUT2	Blue / Red
20	WIEGAND_GND	Black / Red

LED In

Data

Clock

Data

Clock

Data Clock In

Data Clock Out

LED Out

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Single Door Access Control (SDAC)

Single Door Access Control (SDAC) wiring sample : with Push Button

See details on next page for relay connection

19	RELAY_NO	Yellow
21	RELAY_NC	Orange
22	RELAY_COM	Grey

Deadbolt / Door strike

Power supply

9	GPI_0	Yellow
10	GPI_1	Orange / Red
11	GPO_0	Yellow
12	GPO_1	Yellow / Red

Push Button

Door contact

Power supply

⚠️ **If door contact is not used, GPI1 (10) and GPO1 (12) shall be connected together**

⚠️ **Power supply from electrical source shall be switched off before starting the installation.**

Step four: ACP or SDAC

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Internal Relay Wiring

Snubber Diode

Power supply
VCC < 30V
Imax < 1A

Deadbolt /
Door strike

19	RELAY_NO	Yellow
21	RELAY_NC	Orange
22	RELAY_COM	Grey

Push Button
on other side
of the door

Example for Normally
Open connection
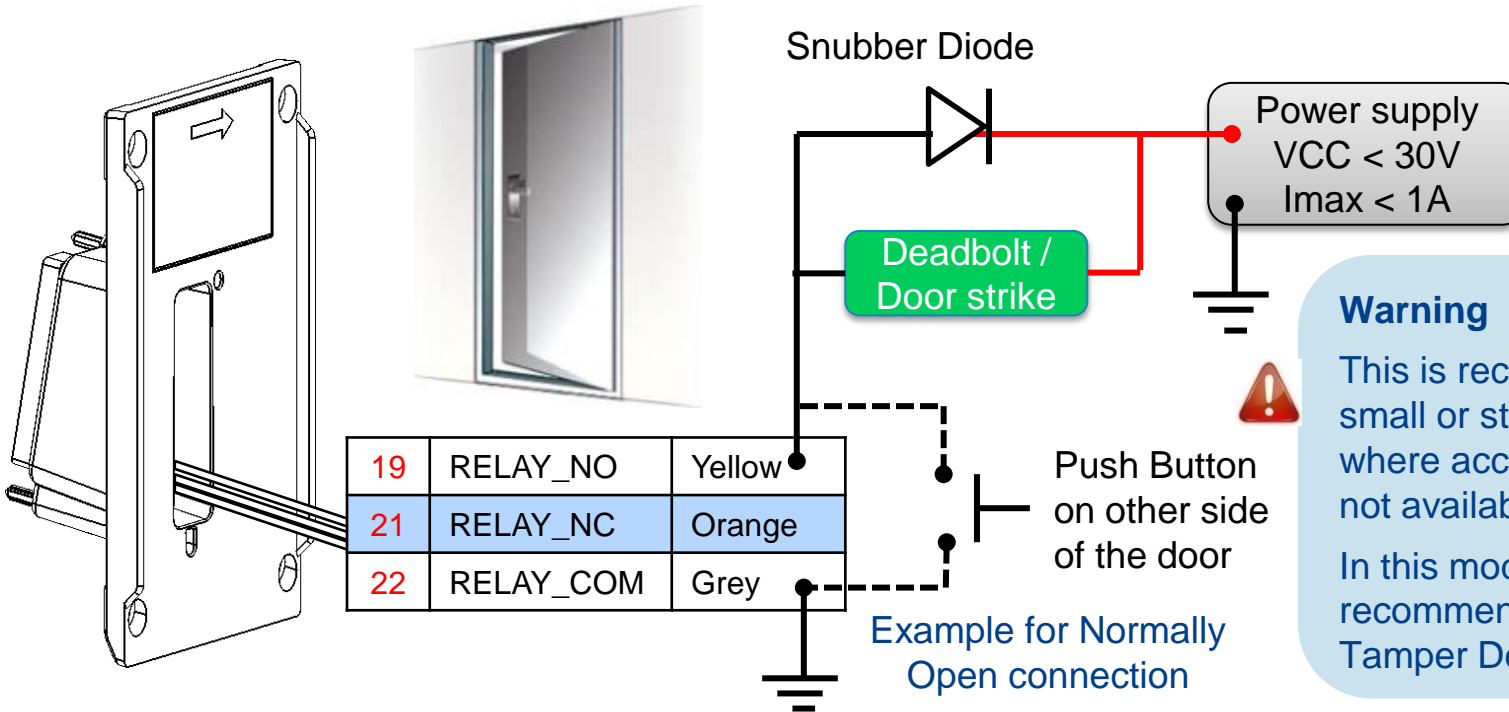
Warning

This is recommended only for small or stand-alone applications where access control panels are not available.

In this mode it is strongly recommended to monitor the Tamper Detection of the device

Inductive load management requires a parallel diode for a better contact lifetime.

Warning
➢ **The internal relay is limited to a maximum current of 1A @ 30V. If the deadbolt / door strike draws more than 1A, damage to the device may occur. If the deadbolt / door strike load exceeds 1A, an external relay must be used.**
➢ **The internal relay is designed for 100.000 cycles. If more cycles are needed, an external relay driven by GPO must be used.**

Step four: ACP or SDAC

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First communication with terminal (1/2)

➔ **First configuration requires a network link**

- The MorphoAccess® SIGMA Lite Series terminal is designed to be able to run in standalone mode, but at least point to point connection between PC and terminal is necessary for the first configuration. It could also be necessary for database management, terminal maintenance, …

➔ **Network connection methods**

- Point to point Ethernet connection
    - This method requires a static IP configuration (except if DHCP server is installed on PC)
        - Use MorphoBioToolBox to configure network parameters (see next page)
- Connection through a LAN (Local Area Network)
    - If DHCP server is available on the network, network parameters will be automatically affected to terminals (contact your network administrator).
    - If no DHCP server is available, it is necessary to configure a static IP on each terminal and PC.
        - Use MorphoBioToolBox to configure network parameters (see next page)

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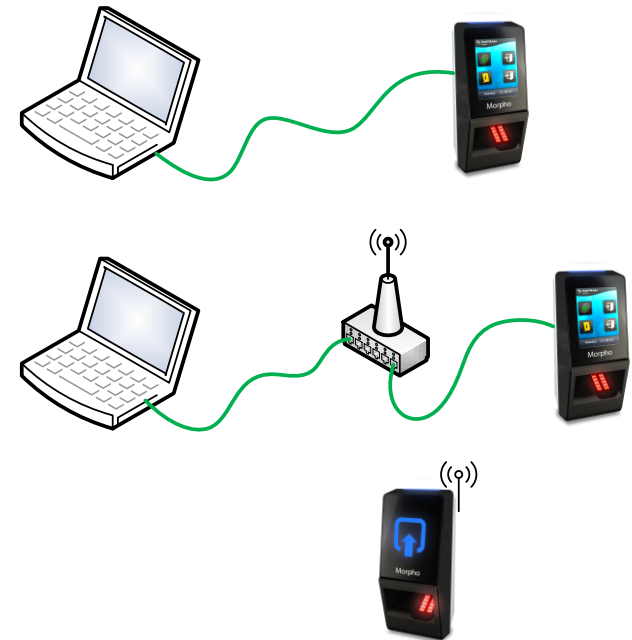
First communication with terminal (2/2)

→ **General remark for network configuration**

- If terminal is connected to local network without DHCP server, be sure to configure the following parameters :
  - Administration PC and all terminals shall have a different IP address (ex : 192.168.0.1; 192.168.0.2; …).
  - Administration PC and all terminals shall have the same network mask (ex : 255.255.255.0 if the 3 first bytes of IP address are the same for all terminals and PC).
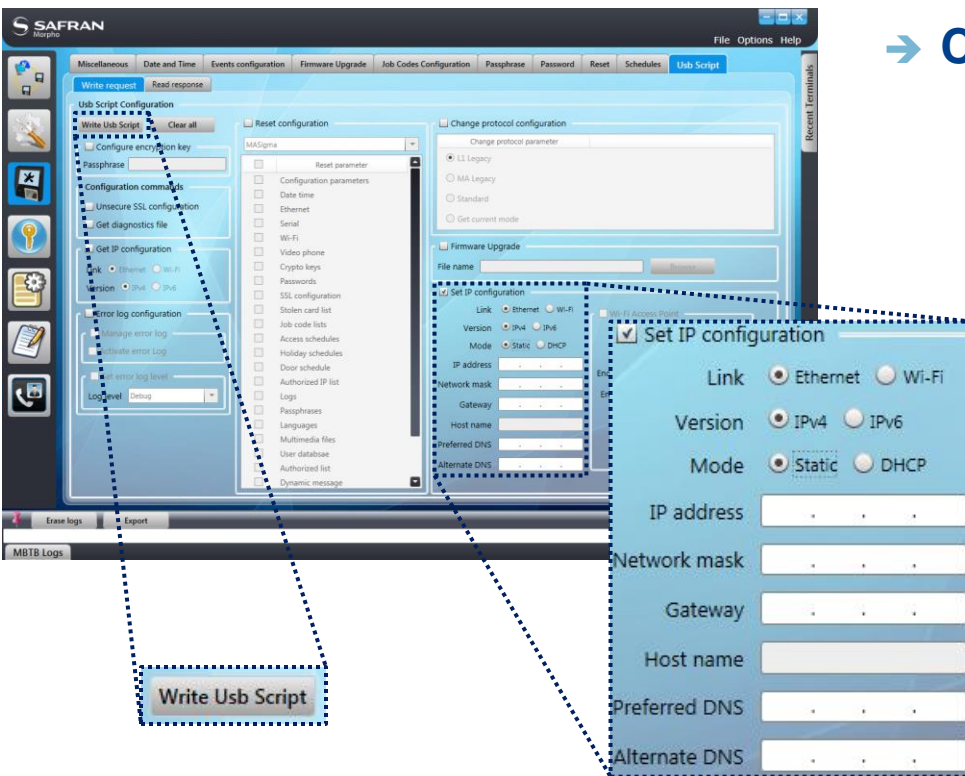
→ **Configuration using MorphoBioToolbox**

- Fill IP address and Network mask following previous paragraph recommendations.
- Even if not used, fill Gateway, Preferred and Alternate DNS values (using 1.1.1.1 for example).
- Click on "Write Usb Script" button and save it on USB key.
- Plug USB key to the terminal using the adaptor.
  - On Lite version, a high pitched beep, followed by purple led panel blinking and high pitched beeps and green led panel will indicate configuration is finished
  - On Lite+ version, a USB plug image followed by 2 high pitched beeps will indicate configuration is finished

Step five: Administration

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Administration with Embedded Web Server

The terminal's embedded Web server enables easy configuration of the devices as well as user enrolment using a web browser on a Desktop PC, Laptop, Tablet or smart phone.

The connection to the embedded Webserver, through LAN or WLAN, requires terminals IP address and terminals password.

Deactivate Webserver if not used.

Terminal administration & User enrolment with a standard web browser

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Welcome Admin

Terminal Information

MA SIGMA Lite+ Multi WR

- User Management
- Logs
- Terminal Info
- Terminal Settings
- Schedules
- Control Configuration
- MMI (Man-Machine Interface)
- Reset default
- Complete Configuration

Terminal

Commercial Name	MA SIGMA Lite+ Multi WR
Descriptive Name	MORPHOACCESS
Serial Number	1523OML0000001
Packaged Part Number	293667810
License Name	BCL; VERIF; MIMA; MA_PAC; MA_WIFI; MA_TA;
License Identifier	293673199-15119510566-03497614052
Firmware Version	MA2.0.5
Sensor Part Number	293625995
Sensor Serial Number	1310S010864
Product Specific Part Number	293667807

Sample

MAC Address

Ethernet	00:24:AE:01:9E:B5
Wi-Fi	5C:F3:70:0A:87:4A

User's Information

All Users / Maximum Capacity	1 / 250000
Total Users Enrolled / Maximum Capacity	1 / 3000
VIP Users / Maximum Capacity	0 / 100
Authorized Users / Maximum Capacity	1 / 250000

Transaction Log Information

Current Count / Maximum Capacity	709 / 100000

Peripherals Availability

Contactless Card Reader - MIFARE DESFire ®	✔
Contactless Card Reader - iCLASS ®	✘
Contactless Card Reader - Prox ®	✘
CBI Sensor	✔
Wi-Fi	✔
Screen	✔
Keyboard	✔
Buzzer	✔

Step five: Administration

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Administration with MorphoBioToolBox application

Another way to configure the MorphoAccess® SIGMA Lite Series terminal is to use a dedicated application: MorphoBioToolBox (for Windows)
Please note that this application has an embedded User Guide (Help menu).

North and South America:
E-mail cscenter@morpho.com with your name, phone number, serial number of your MASIGMA and "**Please Send Link for MBTB**" in the subject of your e-mail. A link to download the software will be e-mailed to you.
Other countries: please contact your sales representative.

Terminal administration with MorphoBioToolBox application

Step five: Administration

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Software for Terminal Remote Administration

➜ **MorphoAccess® SIGMA Lite Series terminals are fully compatible with:**

- MorphoManager application(version 8.0.3 or higher)

➜ **When Legacy Morpho mode enabled, the terminal is compatible with:**

- MEMS (version 7.3.1 or higher),
- The limitations in Morpho Legacy mode are described in the following document:
  - MorphoAccess® SIGMA Series Release Note - Legacy Morpho limitations

➜ **When Legacy L1 mode is enabled, the terminal is compatible with:**

- SecureAdmin (version v4.1.20.0.1 or higher),
- The limitations in L1 Legacy mode are described in the following document:
  - MorphoAccess® SIGMA Series Release Note - Legacy L1 limitations

Step six : Software

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Fingerprint Capture Basics 1/3

| Region of Interest	Recommended Fingers	Acquisition troubleshooting
The biometric sensor is designed to capture the most useful area of the fingerprint, which is usually at the centre of the finger tip, as shown on the figure above.	Ring Finger ③ ② Middle Finger ① Fore Finger The sensor can capture any finger, but we recommend to : • use Fore finger / Index as 1st choice • use middle finger as 2nd choice • use ring finger as alternative 2nd choice (3rd choice) • avoid little finger (poor fingerprint) • avoid thumb (best accuracy but ergonomically more difficult to use)	**General recommendations** ➢ Remove bandages or adhesive tapes from the fingerprint area ➢ Do not press or tense finger to avoid blood vessels constriction. **Fingerprint image too dark :** the finger is probably too moist and/or too dusty ➢ *too moist : dry the finger* ➢ *too dusty: clean up the finger* **Fingerprint image too light :** the finger is probably too cold and/or too dry ➢ *too cold : warm up the finger* ➢ *too dry : moisten the finger (i.e. with moistening pad) and /or warm it up.*

For handling large scale enrollments please contact your Morpho representative for training and services options

Step seven: capture basics

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Fingerprint Capture Basics 2/3

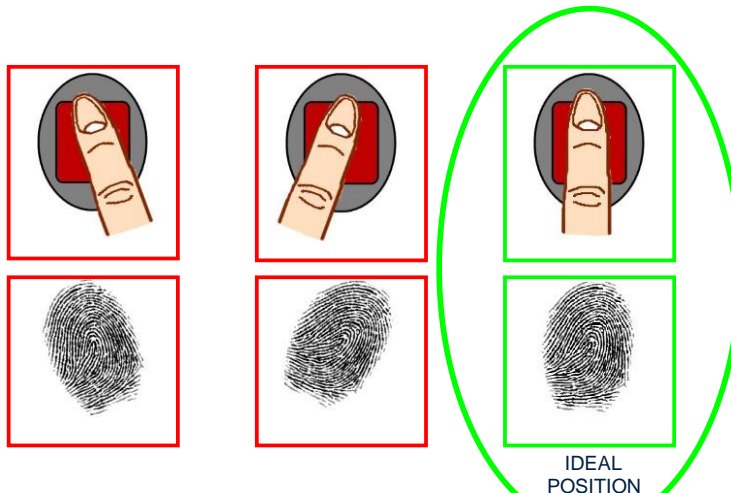## Ideal Finger Position

Finger Height
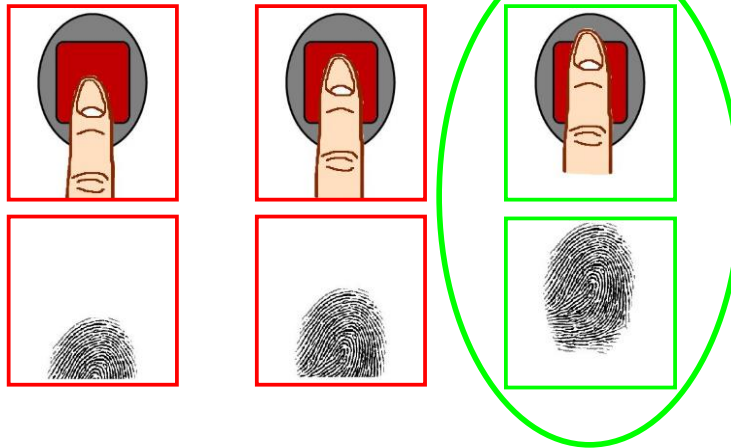
Incorrect Position: ⚠

- Do not place the finger tip :
    - on the bottom of the sensor,
    - or in the middle of the sensor

Correct Position:

- Align centre of finger tip with sensor centre

Finger Angle

Incorrect Position: ⚠

- Do not tilt the finger on right or left side of the sensor

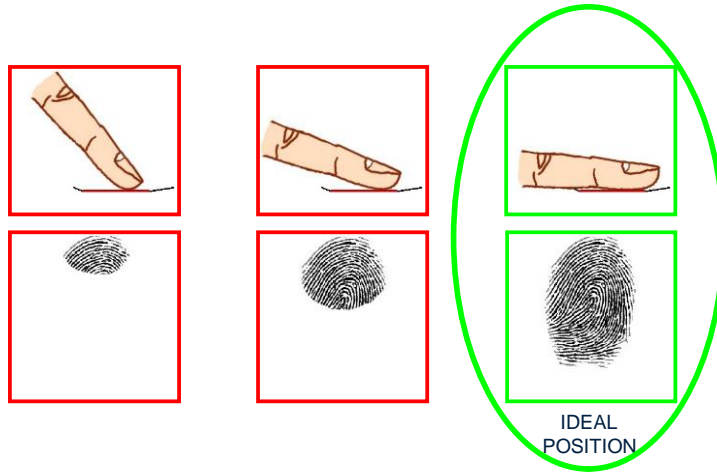**Correct Position:**

- The finger must be parallel to sensor sides

IDEAL POSITION

MorphoAccess® SIGMA Lite Series –
Quick User Guide - 2015_2000005700-V5

Step seven: capture basics

SAFRAN
Morpho

Fingerprint Capture Basics 3/3

Ideal Finger Position
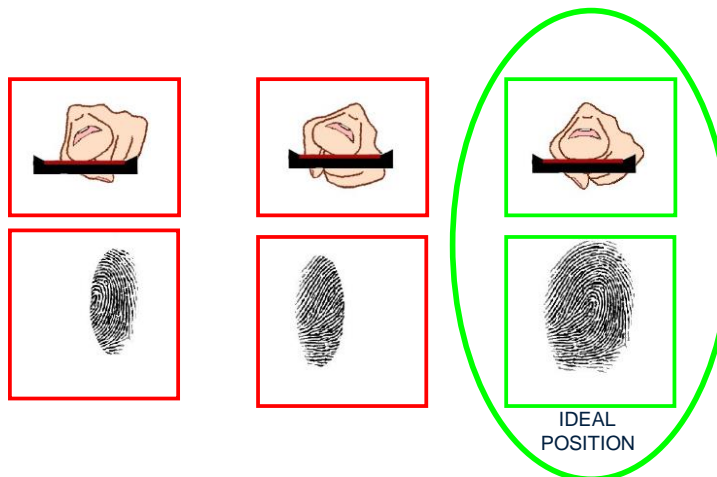
Finger Inclination

IDEAL POSITION

Incorrect Position: ⚠️

- Do not leave the finger in the air
- Do not bend finger upward or downward

Correct Position:

- Finger is parallel to sensor surface

Finger rotation

IDEAL POSITION

Incorrect Position: ⚠️

- Do not roll finger

Correct Position:

- Finger is parallel to surface sensor

Step seven: capture basics

SAFRAN Morpho

MorphoAccess® SIGMA Lite Series basic MMI

Fix blue	Fix green	Fix red	Yellow blinking	Purple blinking	Off
Waiting for card	Access granted	Access denied	Place finger	USB script in progress	Not waiting card
	USB script finished	USB script failed	Move finger		Database empty / not waiting finger

SAFRAN
Morpho

MorphoAccess® SIGMA Lite+ Series basic MMI

Waiting
for card
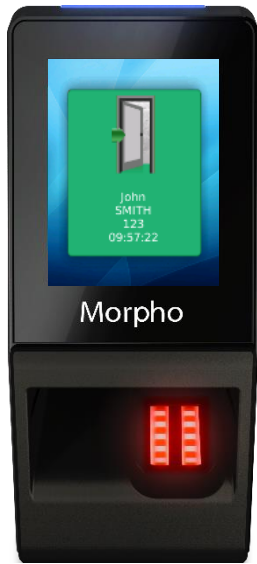
Access
granted

USB
script
finished

Access
denied

USB
script
failed
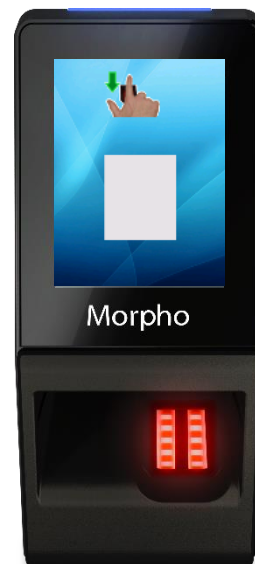
Place
finger

Move
finger

USB key
detected

USB key
removed

Contactless Card Position – PIN Input

Contactless Card Position

Place RF card in front of contactless card reader

Authentication of the user is initiated by the detection of a user card by the (optional) contactless card reader.

The terminal reads the user data stored in the card (at least the User ID), and starts authentication process, as required by terminal settings

Input PIN (MorphoAccess® SIGMA Lite+)

When defined by terminal settings, the user is required to enter his PIN code, once during enrolment process, and at each authentication (in addition or instead of biometric check).

The PIN code is entered using a numeric keypad displayed on the (optional) LCD touch screen.

Step seven: capture basics

SAFRAN
Morpho

Contactless Card Position – Warning

Step seven: capture basics

Time and Attendance feature (MorphoAccess® SIGMA Lite+)

MorphoAccess® SIGMA Lite+ Series terminals support an optional Time and Attendance (T&A) feature.

For this the terminal add a specific T&A information to each identification or authentication record stored in the embedded event log database.

This information is provided by the user through a specific screen displayed during identification or authentication process.

The new screen contains 2 dedicated function keys :
➢ One to specify an entry or a beginning of a task
➢ Another key to specify an exit or an ending of a task
The user is expected to press one of the keys to provide the specific Time & Attendance information to the terminal.

Depending on terminal settings, this screen is displayed before or after the user place his finger on the sensor or his card in front of the reader

This feature is available only with the optional touchscreen LCD.
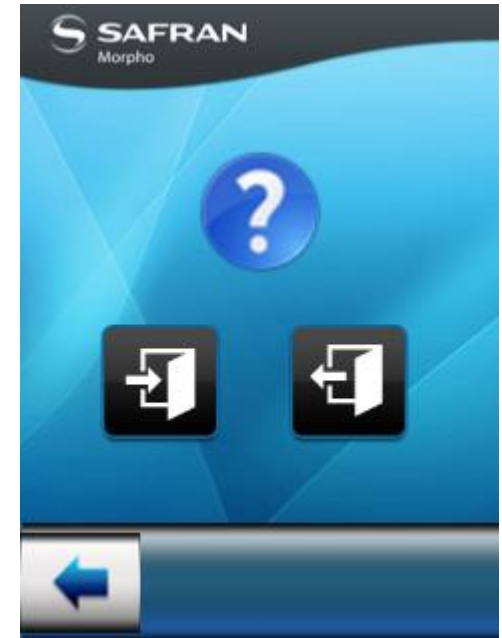
Basic Mode (screen sample)

Step eight: optional features

Recommendations

Global warning

➔ The manufacturer cannot be held responsible in case of non-compliance with the following recommendations or incorrect use of the terminal.

General precautions

➔ Do not attempt to repair the MorphoAccess® SIGMA Lite Series terminal yourself. The manufacturer cannot be held responsible for any damage/accident that may result from attempts to repair components. Any work carried out by non-authorized personnel will void your warranty.

➔ Only use the terminal with its original accessories. Attempts to use unapproved accessories with your terminal will void your warranty.

Terminals not connected to network

➔ For terminals used in standalone mode, it is strongly recommended to backup the local database regularly, and at least after significant changes in the database (add, remove or modification of user's records).

Date / Time synchronization

➔ If you want to use the MorphoAccess® SIGMA Lite Series terminal for applications requiring high time precision, we recommend regularly synchronizing terminal time with an external clock.

➔ The MorphoAccess® SIGMA Lite Series terminal clock has a +/- 10 ppm typical time deviation at +25⁰C (roughly +/- 3sec per day).

➔ At lower and higher temperature, deviation may be greater (in worst case 7 seconds per day).

Cleaning precautions

➔ A dry cloth should be used to clean the terminal, especially the biometric sensor.

➔ The use of acid liquids, alcohol or abrasive materials is prohibited.

Documentation

Documents about installing the terminal

MorphoAccess® Lite Series Installation Guide, Ref. 2015_0000007248

This document describes terminal physical mounting procedure, electrical interfaces and connection procedures.

Documents about administrating / using the terminal

MorphoAccess® Lite Series Quick User Guide, Ref. 2015_2000005700

This document gives a quick overview of the product and the basics of configuration and use.

MorphoAccess® Lite Series Administration Guide, Ref. 2015_2000010196

This document describes the different functions available on the terminal and procedures for configuring the terminal. It also contains the full description of all the configuration parameters for the terminal.

MorphoAccess® Lite Series Parameters Guide, Ref. 2015_2000010197

This document contains the full description of all the terminal configuration parameters.

Documents for the developer

MorphoAccess® SIGMA Series Host System Interface Specification, Ref. 2015_2000010199

This document describes the commands supported by the MorphoAccess® SIGMA and LITE Series terminals.

MorphoAccess® SIGMA Series Remote Message Specification, Ref. 2015_2000010198

This document describes the format of messages sent by the terminal to a distant system.

Release note : for each firmware version, a release note is published describing the new features, the supported products, the potential known issues, the upgrade / downgrade limitations, the recommendations, the potential restrictions…

North and South America: you may obtain these document by e-mailing cscenter@morpho.com with your name, phone number, MA SIGMA serial number and "Send Links For MA SIGMA Documents" in the subject line.

Other countries: please contact your sales representative.

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(9H00am to 5H30pm French Time, Monday to Friday)

For the latest firmware, software, document releases, and news, please check our websites :
➢ **North and South America :** e-mailing cscenter@morpho.com with your name, phone number, MA SIGMA serial number and "Send Links For MASIGMA Documents" in the subject line
➢ **Other countries :** please visit our web site www.biometric-terminals.com (To get your log in and password please contact your sales representative).

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