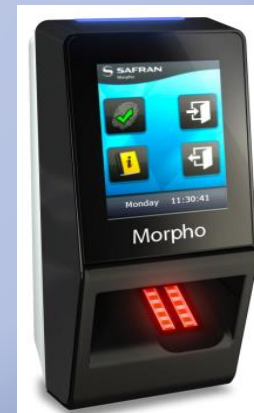


How to Enable Relay of a Sigma and Sigma Lite



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Sigma

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- Enable Relay (Method One via Webbrowser)
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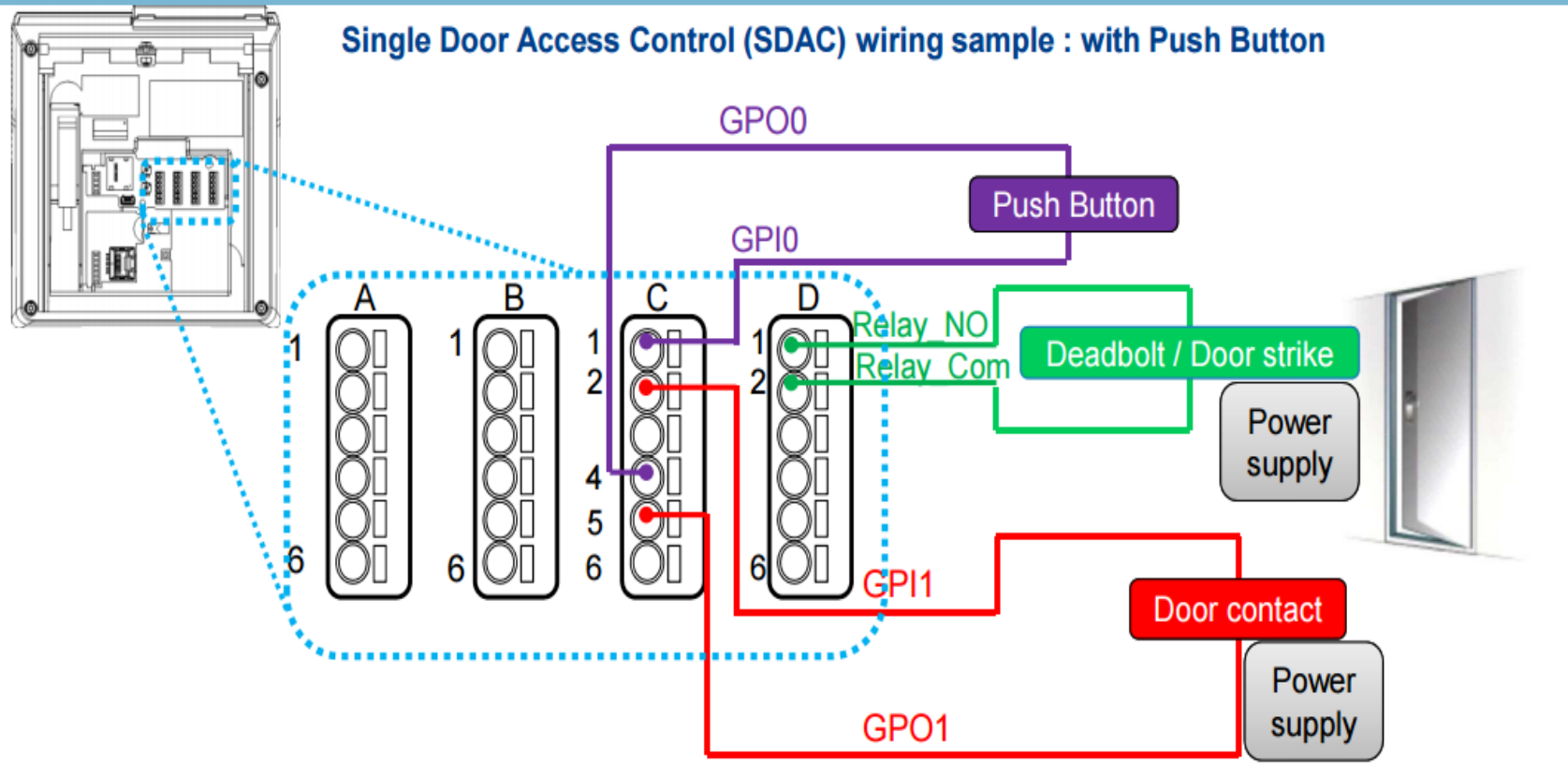
Sigma



Wiring



SINGLE DOOR ACCESS CONTROL (SDAC)



Find this information from the Quick User Guide

<http://service.morphotrak.com/brochures.html>

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Wiring



****Important**** The Sigma and the Door Mag lock must be powered separately

If door contact is not used, GPI1 (C-2) and GPO1 (C-5) shall be connected together
Power supply from electrical source shall be switched off before starting the installation.

The internal relay is limited to a maximum current of 2A @ 30V. If the deadbolt / door strike draws more than 2A, damage to the device may occur. If the deadbolt / door strike load exceeds 2A, 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.



Enable Relay (Method One via LCD Screen * Sigma only)

Enable Relay (Method One via LCD Screen)



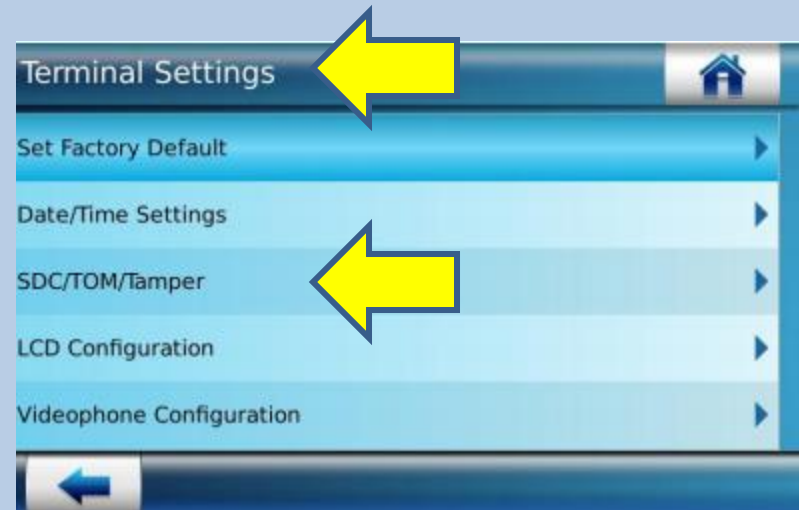
- Access the LCD screen of Sigma (12345 log in)



Enable Relay (Method One via LCD Screen)



- Path>System Menu>Terminal Settings>SDC/TOM/Tamper>SDC Parameters



Enable Relay (Method One via LCD Screen)



- Switch to SDC
- You can read up more from the Administration Guide on Page 173
- <http://service.morphotrak.com/brochures.html>



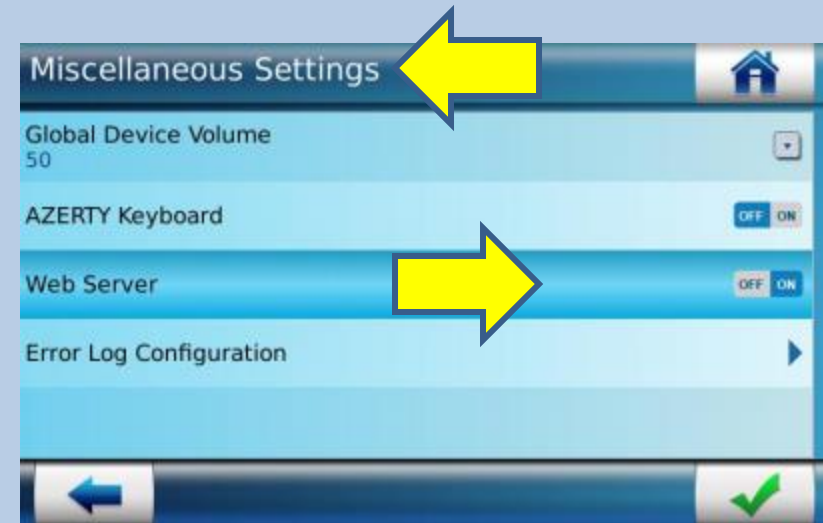


Enable Relay (Method Two via Web Browser)

Enable Relay (Method Two via Web Browser)



- Web Server
- Turn on Web Server through the LCD screen
- System Menu > Miscellaneous Settings > Web Server



Enable Relay (Method Two via Web Browser)



- Open up a Web Browser and type in the IP address of the Sigma
- Password is 12345

Login

Username Admin

Password

Login

Enable Relay (Method Two via Web Browser)



- Select SDAC and enable Single Door Access Control
- Hit Save

Device Settings

- General
- Tamper
- GPIO
- SDAC**
- Time and Attendance
- Logs
- Biometric
- Communication
- Controller Feedback
- Datetime
- Wiegand
- User Control Configurations
- Threat Level

SDAC Settings

Enable Single Door Access Control

Door Unlock Duration: (sec)

Door Held Open Duration: (sec)

Request to Exit Mode: Manual Door Open Electric Door Open

Egress Timeout: (sec)

Default Relay State:

Enable Time Override Mode

Time override Mode Timeout: (min)



Enable Relay (Method Three via ToolBox)

Enable Relay (Method Three via ToolBox)



- **Morpho Tool Box**
- **Download the Morpho Tool Box**
- <http://service.morphotrak.com/software-links.html>

Terminal Type

Connection information

TCP / IP Serial Sr. No - 1350SMS0000043

Address type IP4 IP6

Address

Port

Timeout Seconds [5-30]

Use SSL / TLS

Terminal CA certificate path

Client certificate path

Client certificate password

Enable Relay (Method Three via ToolBox)



- Log into the Sigma reader

Terminal Type

Connection information

TCP / IP Serial Sr. No - 1350SMS0000043

Address type IP4 IP6

Address

Port

Timeout Seconds [5-30]

Use SSL / TLS

Terminal CA certificate path

Client certificate path

Client certificate password

Enable Relay (Method Three via ToolBox)





- Click on the Key Icon

| Name | Device Configuration | Local |
|--|----------------------|-------|
| audio.permission_message_attention | 0 | 0 |
| audio.permission_tamper | 1 | 1 |
| audio.permission_verify_fail | 1 | 1 |
| audio.permission_verify_success | 1 | 1 |
| time | 70 | 70 |
| auth_param.additional_bio_check_nb_attempt | 2 | 2 |
| auth_param.additional_bio_check_timeout | 5 | 5 |

Enable Relay (Method Three via ToolBox)



- Locate the Key, `gpio.sdac_relay_default_state` and change it to 1
- Click on the check mark to save settings

| | | | | |
|--|---|--------------------------------|---|---|
| <code>gpio.sdac_relay_default_state</code> | 0 | <input type="text" value="1"/> |  |  |
|--|---|--------------------------------|---|---|

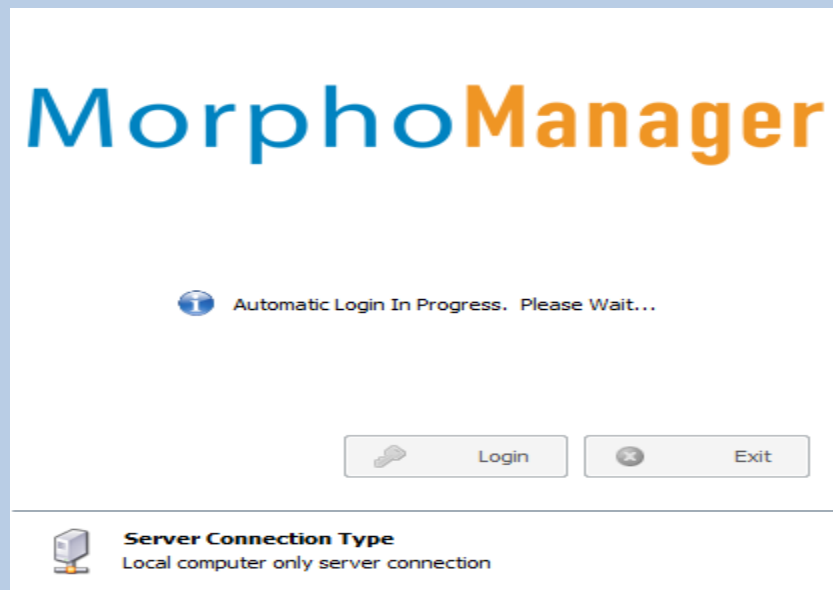


Enable Relay (Method Four via Morpho Manager(preferred))

Enable Relay (Method Four via MM preferred)



- **Morpho Manager**
- **This Method is for Users that already have Morpho Manager installed**



Enable Relay (Method Four via MM preferred)



- Within Morpho Manager Biometric Device Profile
- Under Access Control Mode Settings
- Use the Drop down to change to Stand-Alone
- Check off Relay Enabled
- Click Finish

Items

- Operator
- Key Policy
- Biometric Device Profile**
- Biometric Device
- Wiegand Profiles
- User Policy
- Access Schedules
- User Distribution Group

Editing Biometric Device Profile

Access Control Mode Settings

Access Control Mode: Stand-alone

Wiegand Out Enabled:

Panel Feedback Mode: None

Panel Feedback No Response Timeout: 5000 (in milliseconds)

Relay Enabled:

Relay Duration: 200 (in 10s of milliseconds)

Push To Exit Enabled:

Push To Exit Duration: 25000 (in milliseconds)

Duress Wiegand Mode: Reversed

Duress Wiegand Profile: Automatically generated random 64 t

Sigma Lite

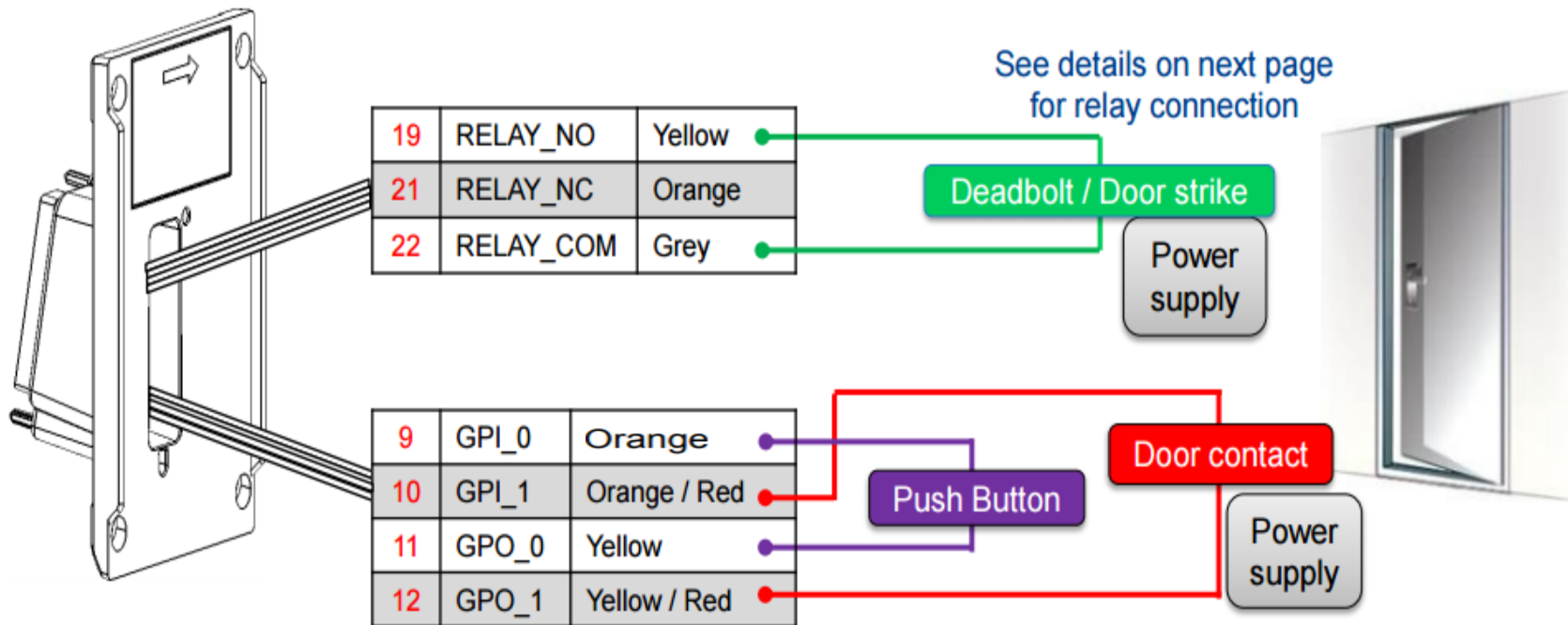


Wiring



Single Door Access Control (SDAC)

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



Find more information from the Quick User Guide

<http://service.morphotrak.com/brochures.html>

Wiring



****Important**** The Sigma and the Door Mag lock must be powered separately.

If door contact is not used, GPI1 (10)(Orange/Red) and GPO1 (12)(Yellow/Red) shall be connected together.

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

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.

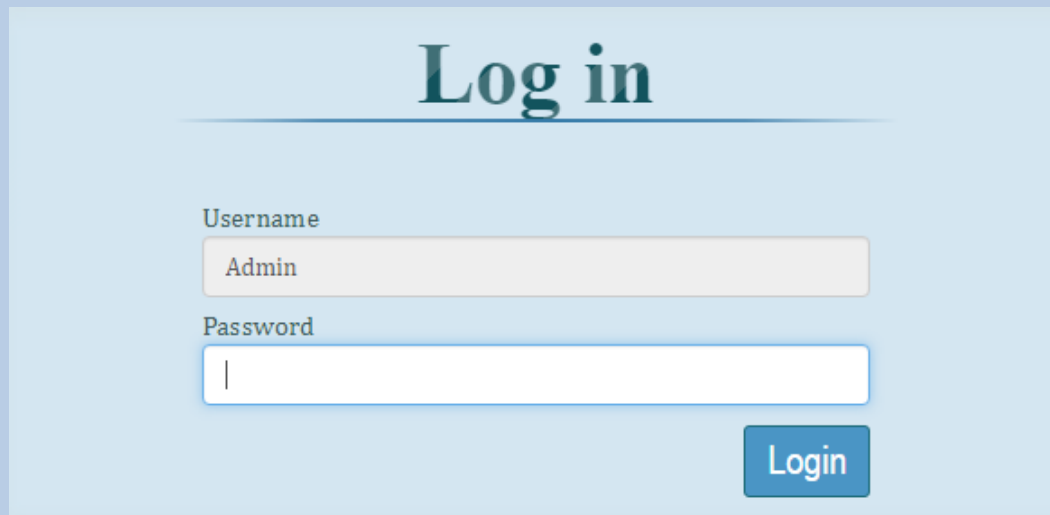


Enable Relay (Method One via Web Browser)

Enable Relay (Method One via Web Browser)



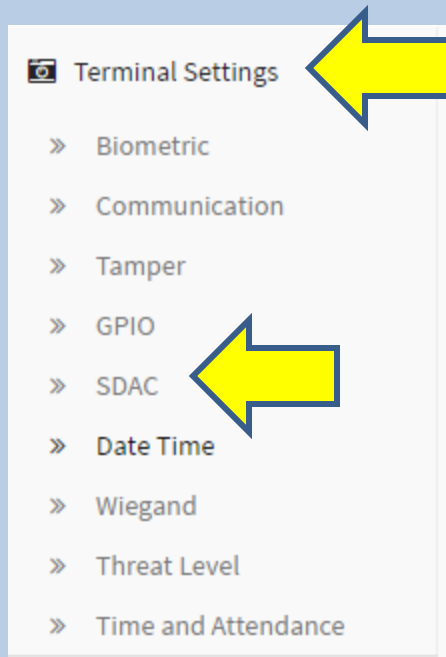
- Sigma Lite readers Web browsers are automatically on
- Open up a Web Browser and type in the IP address of the Sigma
- Password is 12345

A screenshot of a web browser login page. The page has a light blue background. At the top, the words 'Log in' are written in a large, dark blue, serif font, underlined. Below this, there are two input fields. The first is labeled 'Username' and contains the text 'Admin'. The second is labeled 'Password' and is empty, with a vertical cursor on the left. To the right of the password field is a blue button with the text 'Login' in white.

Enable Relay (Method One via Web Browser)



- **Select Terminal Settings and then SDAC**
- **Hit Save**



Enable Relay (Method One via Web Browser)



- Select Enable Single Door Access Control
- Select Save

SDAC Setting

Enable Single Door Access Control

Door Unlock Duration (sec)

Door Held Open Duration (sec)

Request to Exit Mode Manual Door Open Electric Door Open

Egress Timeout (sec)

Enable Time Override Mode

Time override Mode Timeout (min)

Save



Enable Relay (Method Two via ToolBox)

Enable Relay (Method Two via ToolBox)



- **Morpho Tool Box**
- **Download the Morpho Tool Box**
- <http://service.morphotrak.com/software-links.html>

Terminal Type

Connection information

TCP / IP Serial Sr. No - 1350SMS0000043

Address type IP4 IP6

Address

Port

Timeout Seconds [5-30]

Use SSL / TLS

Terminal CA certificate path

Client certificate path

Client certificate password

Enable Relay (Method Two via ToolBox)



- Log into the Sigma reader

Terminal Type MA Sigma

Connection information

TCP / IP Serial Sr. No - 1350SMS0000043

Address type IP4 IP6

Address 192 . 168 . 1 . 0

Port 11010


Timeout 30 Seconds [5-30]

Use SSL / TLS

Terminal CA certificate path

Client certificate path

Client certificate password



Enable Relay (Method Two via ToolBox)



- Click on the Key Icon

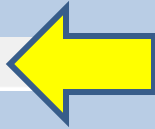
| Name | Device Configuration | Local |
|---|----------------------|-------|
| audio.permission_message_attention | 0 | 0 |
| audio.permission_tamper | 1 | 1 |
| audio.permission_verify_fail | 1 | 1 |
| audio.permission_verify_success | 1 | 1 |
| ... | 70 | 70 |
| ...n.additional_bio_check_nb_attempt | 2 | 2 |
| auth_param.additional_bio_check_timeout | 5 | 5 |

Enable Relay (Method Two via ToolBox)



- Locate the Key, `gpio.func_mode` and change it to 2
- Click on the check mark to save settings

`gpio.func_mode`



2

2



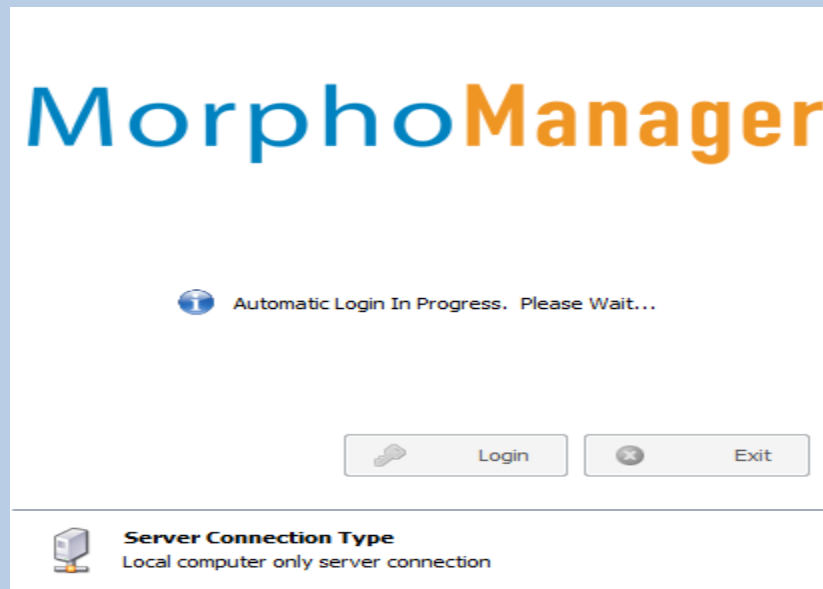


Enable Relay (Method Three via Morpho Manager (preferred))

Enable Relay (Method Three via MM preferred)



- **Morpho Manager**
- **This Method is for Users that already have Morpho Manager installed**



Enable Relay (Method Three via MM preferred)



- Within Morpho Manager Biometric Device Profile
- Under Access Control Mode Settings
- Use the Drop down to change to Stand-Alone
- Check off Relay Enabled
- Click Finish

Items

- Operator
- Key Policy
- Biometric Device Profile**
- Biometric Device
- Wiegand Profiles
- User Policy
- Access Schedules
- User Distribution Group

Editing Biometric Device Profile

Access Control Mode Settings

Access Control Mode: Stand-alone

Wiegand Out Enabled:

Panel Feedback Mode: None

Panel Feedback No Response Timeout: 5000 (in milliseconds)

Relay Enabled:

Relay Duration: 200 (in 10s of milliseconds)

Push To Exit Enabled:

Push To Exit Duration: 25000 (in milliseconds)

Duress Wiegand Mode: Reversed

Duress Wiegand Profile: Automatically generated random 64 t

Secure Admin

Within Secure Admin

Secure Admin

- Go to Device settings>expand Device network>default group and click on the Single Door Access Control tab

1. Click on Device Settings

2. Double click on the reader

3. Click on SDAC

4. Activate SDAC

5. Hit Apply

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Wiring

*****Important*****

For Sigma Lite

If door contact is not used, GPI1 (10)(Yellow/Red) and GPO1 (12)(Yellow/Red) shall be connected together.

Power supply from electrical source GPI1 (10)(Yellow/Red) and GPO1 (12)(Yellow/Red) shall be switched off before starting the installation

For Sigma

If door contact is not used, CPI1 (C-2) and GPO1 (C-5) shall be connected together.

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

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- ***Website***

- Please visit our website,
Service.morphotrak.com for software,
firmware, videos and PDF's.