



SW5484E SWITCH CONFIGURATION SOFTWARE

Software User Manual

Product Information

Model:	SW5484E-121-10A8-00
Serial Number:	0000011
Firmware Version:	00.01.01
Full Scale Range:	1.0 in/sec (25.4 mm/s) peak
Housing Material and Stud Size:	316 SS housing, 1/4 [in] NPT stud
Hazardous Area Certification:	EAC, Ex d IIC T4 Gb
Connection Type:	8-Pin MIL-Style
High-Pass Filters:	2 Hz (standard)
Low-Pass Filters:	1500 Hz (standard)

Loaded Configuration

Alarm 1:	0.25 in/s pk
Alarm 1 Delay:	3 sec
Alarm 1 Normally Open/Closed:	Normally Open
Alarm 1 Latching Mode:	Non-Latching Mode
Alarm 2 :	0.50 in/s pk
Alarm 2 Delay:	3 sec
Alarm 2 Normally Open/Closed:	Normally Open
Alarm 2 Latching Mode:	Non-Latching Mode
Powerup Delay:	10 sec

Simulation Mode

Metric Units

*Not currently configured for SIL

Version 1.09.10

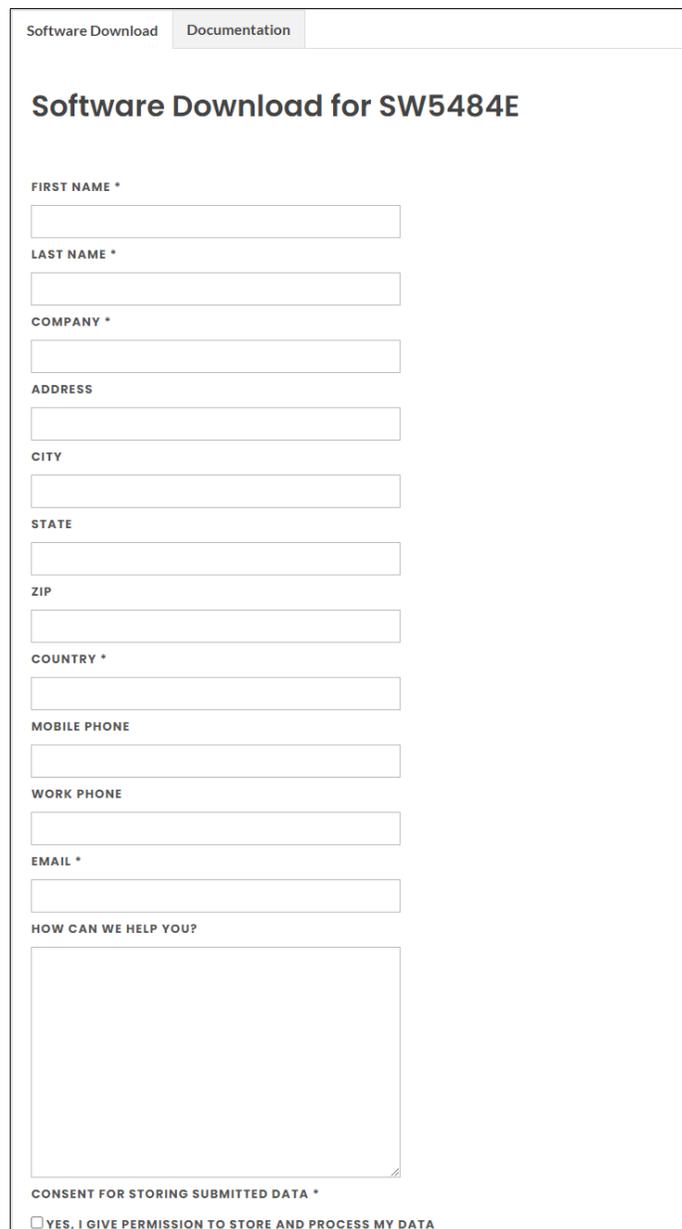
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SOFTWARE DOWNLOAD

1. To download the software, [click here](#) or go to the Metrix website.
2. On the homepage, place mouse over PRODUCTS, under SWITCHES select ELECTRONIC > SW5484E COMPACT SWITCH

On the SW5484E Compact Configurable Vibration Switch page, scroll down to find the Software Download Form for SW5484E.



The image shows a web form titled "Software Download for SW5484E". At the top, there are two tabs: "Software Download" (active) and "Documentation". The form contains the following fields:

- FIRST NAME *
- LAST NAME *
- COMPANY *
- ADDRESS
- CITY
- STATE
- ZIP
- COUNTRY *
- MOBILE PHONE
- WORK PHONE
- EMAIL *
- HOW CAN WE HELP YOU? (text area)

At the bottom of the form, there is a consent section:

CONSENT FOR STORING SUBMITTED DATA *

YES, I GIVE PERMISSION TO STORE AND PROCESS MY DATA

Figure 1: Required information for software download.

3. Enter all required information and submit.
4. Double-click the file SW5484E_setup.exe and follow installation instructions.

OPENING APPLICATION

1. Double click on the application icon.



2. Application will be displayed as seen in Figure 2.

Note: Communication Dongle will be detected if already connected. Otherwise, connect Communication Dongle to enable the “Connect” button.

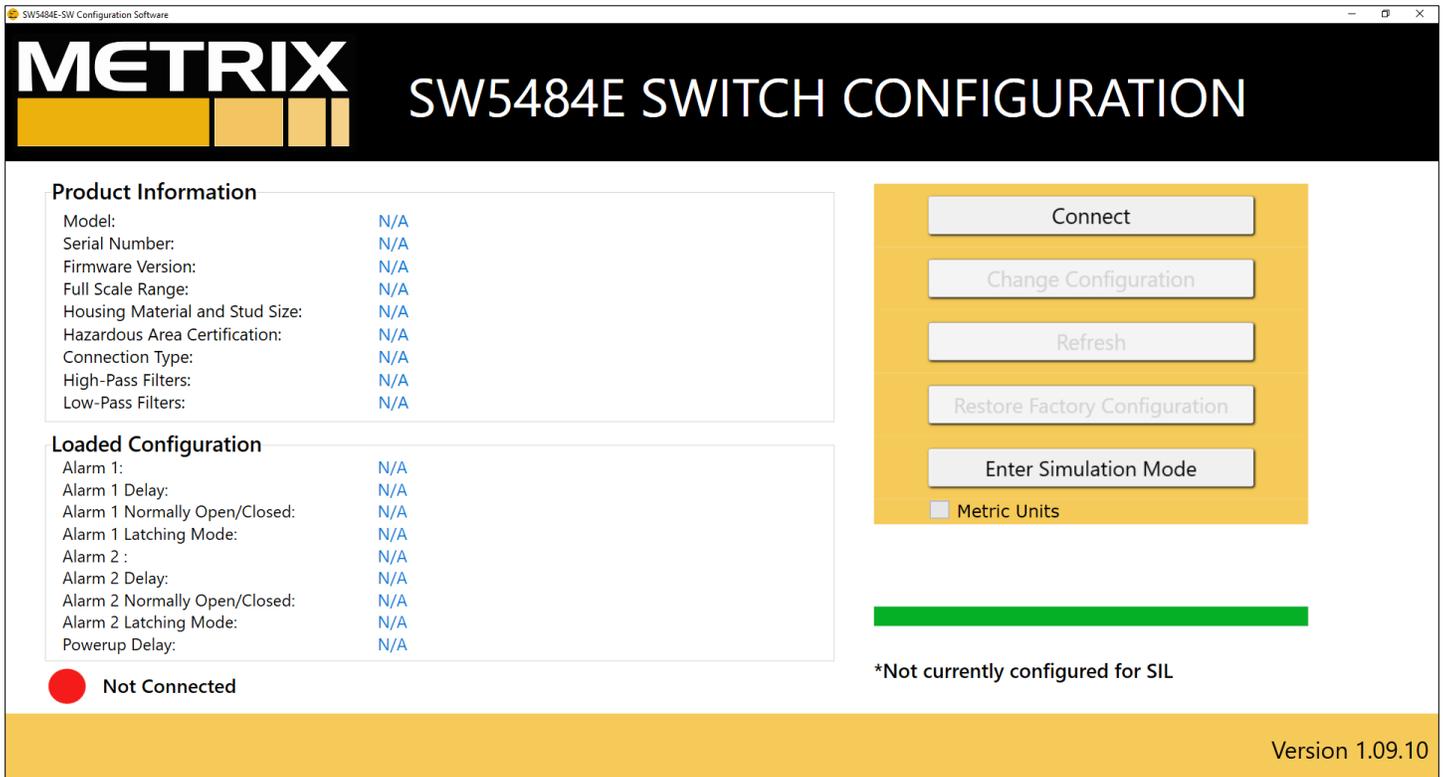


Figure 2: Communication Dongle is connected, “Connect” button is enabled.

Connect

Click “Connect” to connect device to the application, the screen will be populated with the configuration stored in the unit and all buttons will be enabled. See the figure below:

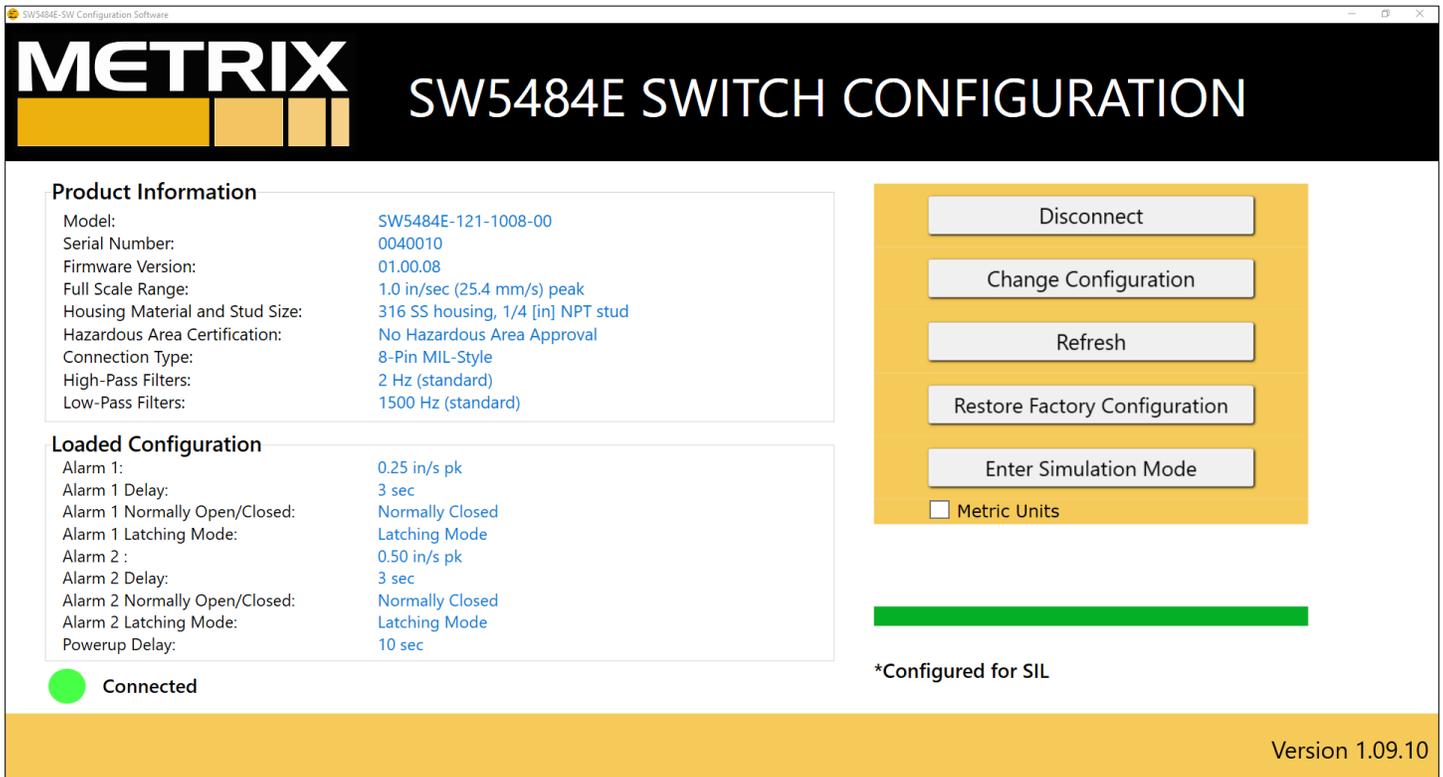


Figure 3: Screen displayed after connecting an SW5484E.

Disconnect

“Disconnect” is enabled after connecting with unit.

Click “Disconnect” to close communication with the SW5484E Communication Dongle.

Note:

- “Connect” button will remain enabled when Communication Dongle is connected.
- After clicking “Disconnect,” Communication Dongle can remain plugged in while connecting a different unit. However, if “Connect” is clicked with no unit connected, the app will need to be restarted.

Change Configuration

Clicking the “Change Configuration” button will display the following screen:

Change Configuration [X]

Options

Vibration Units: in/s mm/s

Alarm 1

Trigger Level: in/s pk Latch Mode

Trigger Delay: sec

Relay:

Alarm 2

Trigger Level: in/s pk Latch Mode

Trigger Delay: sec

Relay:

PowerUp Delay: sec

Figure 4: Change Configuration Screen.

Changes can be made to:

1. **Vibration Units:** in/s or mm/s
2. **Trigger Level:** Input value must be within full scale range, in X.XX format.
3. **Trigger Delay:** Delay value must be between 0 to 300 seconds.
4. **Latching Mode:** Latching or Non-Latching
5. **Relay:** Normally Closed or Normally Open

Note: Selecting the Normally Open setting de-energizes the relay and will no longer operate in “FailSafe” mode. This feature operates outside of the SIL certification requirement. The pop-up window in Figure 5 will appear when selecting Normally Open.

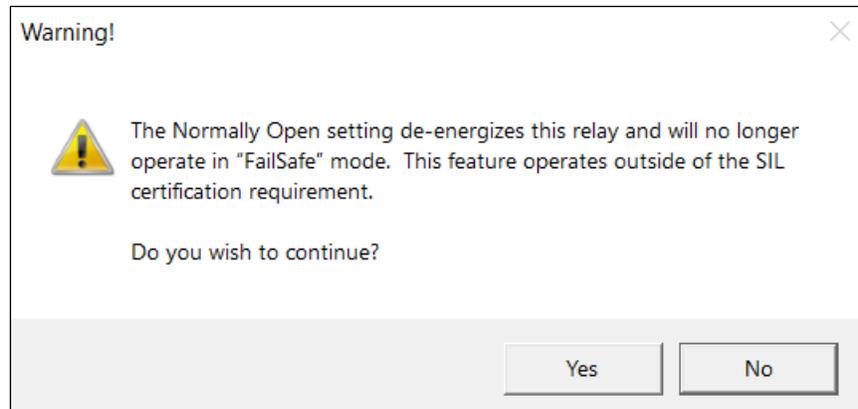


Figure 5: Normally Open warning message.

Note: The Non-Latching setting will allow the relay to automatically reset after the alarm clears, whereas, with the Latching setting the user must cycle power to the unit to get the relay to change state, or in other words, to clear the alarm. The Latching setting is required for SIL.

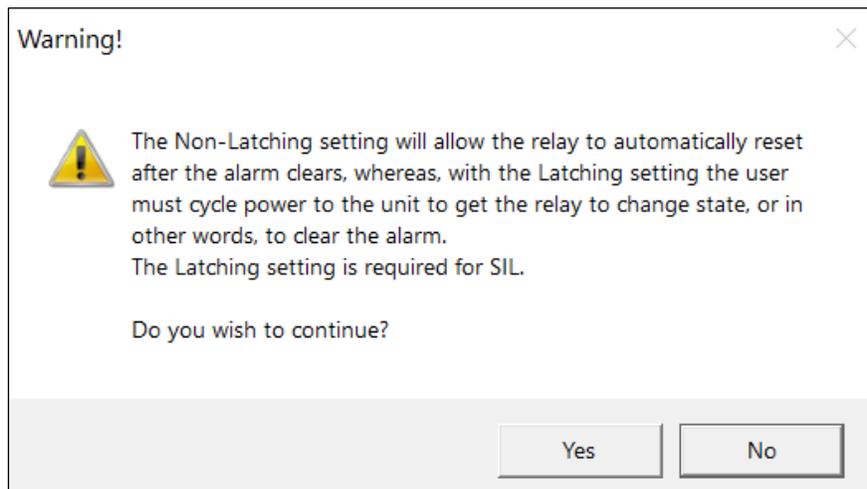


Figure 6: Warning message when Latching option is de-selected.

Configure the switch trigger setpoints, time delays, and separate shelf states for the two alarm setpoints, then click “Send.”

Select the appropriate changes, then click “Send Configuration.”

Note:

- Password is required to change the configuration of the unit.
- Default password: Metrix123!

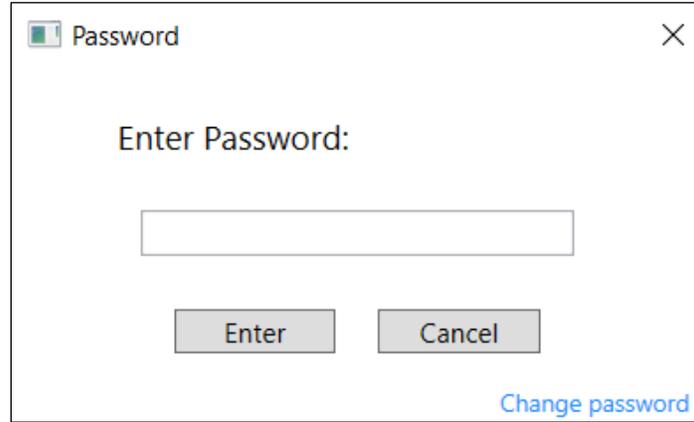


Figure 7: Password Window.

Enter the password and click “Enter.”

The following screen is displayed after the values have been stored in the unit.

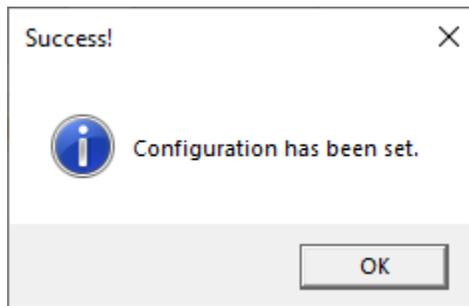


Figure 8: Success screen will appear after configuration is stored in the unit.

Click “OK” to return to the main screen.

Refresh

Clicking “Refresh” will retrieve the loaded configuration from the unit and populate the values displayed on the screen.

Restore Factory Configuration

Clicking “Restore Factory Configuration” will restore the unit to the original configuration from factory.

Note:

- Password is required to restore the configuration of the unit.
- The two setpoints at factory are set at one quarter (1/4) and one half (1/2) of the full-scale range.

Simulation Mode

Simulation Mode allows the user to get acquainted with the SW5484E SWITCH CONFIGURATION application prior to using in the field.

Selecting “Enter Simulation Mode” will display the following:

The screenshot shows the SW5484E SWITCH CONFIGURATION software interface. The title bar reads "SW5484E-SW Configuration Software". The main header features the METRIX logo and the text "SW5484E SWITCH CONFIGURATION".

Product Information

Model:	SW5484E-121-10A8-00
Serial Number:	0000011
Firmware Version:	00.01.01
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Housing Material and Stud Size:	316 SS housing, 1/4 [in] NPT stud
Hazardous Area Certification:	EAC, Ex d IIC T4 Gb
Connection Type:	8-Pin MIL-Style
High-Pass Filters:	2 Hz (standard)
Low-Pass Filters:	1500 Hz (standard)

Loaded Configuration

Alarm 1:	0.25 in/s pk
Alarm 1 Delay:	3 sec
Alarm 1 Normally Open/Closed:	Normally Open
Alarm 1 Latching Mode:	Non-Latching Mode
Alarm 2 :	0.50 in/s pk
Alarm 2 Delay:	3 sec
Alarm 2 Normally Open/Closed:	Normally Open
Alarm 2 Latching Mode:	Non-Latching Mode
Powerup Delay:	10 sec

Simulation Mode

Control Panel:

- In Simulation
- Change Configuration
- Refresh
- Restore Factory Configuration
- Exit Simulation Mode
- Metric Units

*Not currently configured for SIL

Version 1.09.10

Figure 9: Simulation Mode Screen.

The screen is populated with a simulated configuration, and all buttons are enabled. Change Configuration, Refresh and Restore Factory Configuration buttons have functionality that allows user to become acquainted with this application.

Select “Exit Simulation Mode” to go back to the default main screen.

Metric Units

- Units can be changed to display as: in/s or mm/s.
- Metric units are available by selecting “Metric Units” checkbox from the Main window or “Vibration Units” from the Change Configuration window.

Product Information

Model:	SW5484E-121-1008-00
Serial Number:	0040010
Firmware Version:	01.00.08
Full Scale Range:	1.0 in/sec (25.4 mm/s) peak
Housing Material and Stud Size:	316 SS housing, 1/4 [in] NPT stud
Hazardous Area Certification:	No Hazardous Area Approval
Connection Type:	8-Pin MIL-Style
High-Pass Filters:	2 Hz (standard)
Low-Pass Filters:	1500 Hz (standard)

Loaded Configuration

Alarm 1:	6.41 mm/s pk
Alarm 1 Delay:	3 sec
Alarm 1 Normally Open/Closed:	Normally Closed
Alarm 1 Latching Mode:	Latching Mode
Alarm 2 :	12.80 mm/s pk
Alarm 2 Delay:	3 sec
Alarm 2 Normally Open/Closed:	Normally Closed
Alarm 2 Latching Mode:	Latching Mode
Powerup Delay:	10 sec

Connected

Metric Units

*Configured for SIL

Version 1.09.10

Figure 10: Units changed to mm/s in Main window.

Password

Password is required to change or restore a configuration in the unit. The following window appears to enter the password.

Note: Default password: Metrix123!

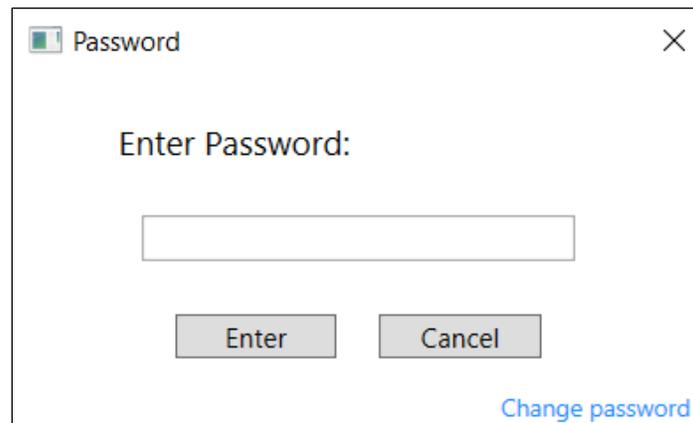


Figure 11: Password Window

- Entering the correct password will change or restore the configuration in the unit.
- Entering an incorrect password will prompt the following message to appear:

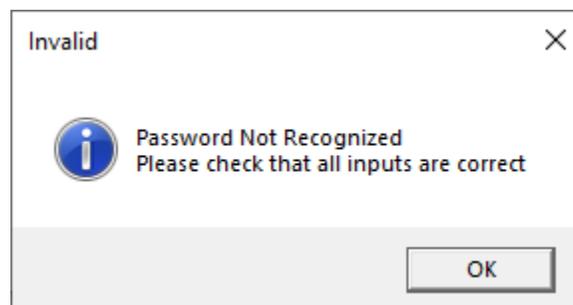
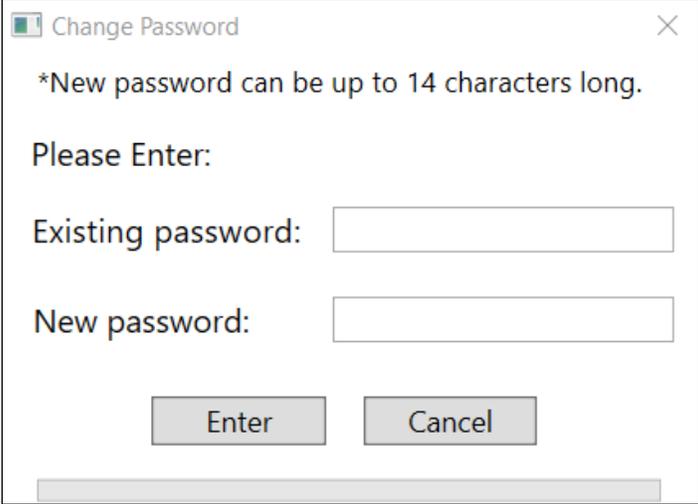


Figure 12: Message for an incorrectly entered password.

Change Password

Changing existing password can be done by clicking the “Change password” label on the bottom right corner of the Password window. See Figure 11.



A dialog box titled "Change Password" with a close button (X) in the top right corner. The text inside reads: "*New password can be up to 14 characters long." Below this, it says "Please Enter:". There are two input fields: "Existing password:" and "New password:". At the bottom, there are two buttons: "Enter" and "Cancel".

Figure 13: Change Password window.

Enter existing password and new password, then click “Enter.” Once the new password has changed, the following message will appear:

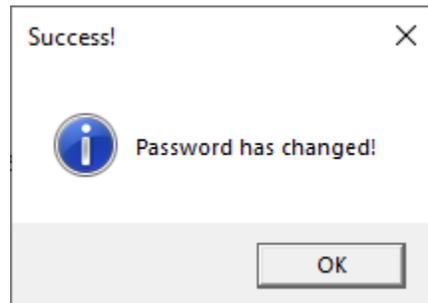


Figure 14: Success screen will appear after new password is saved.

Click “OK” to return to the Password window.