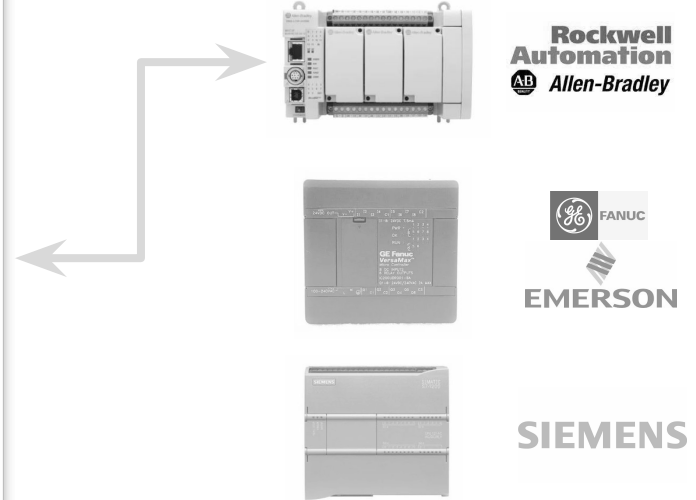
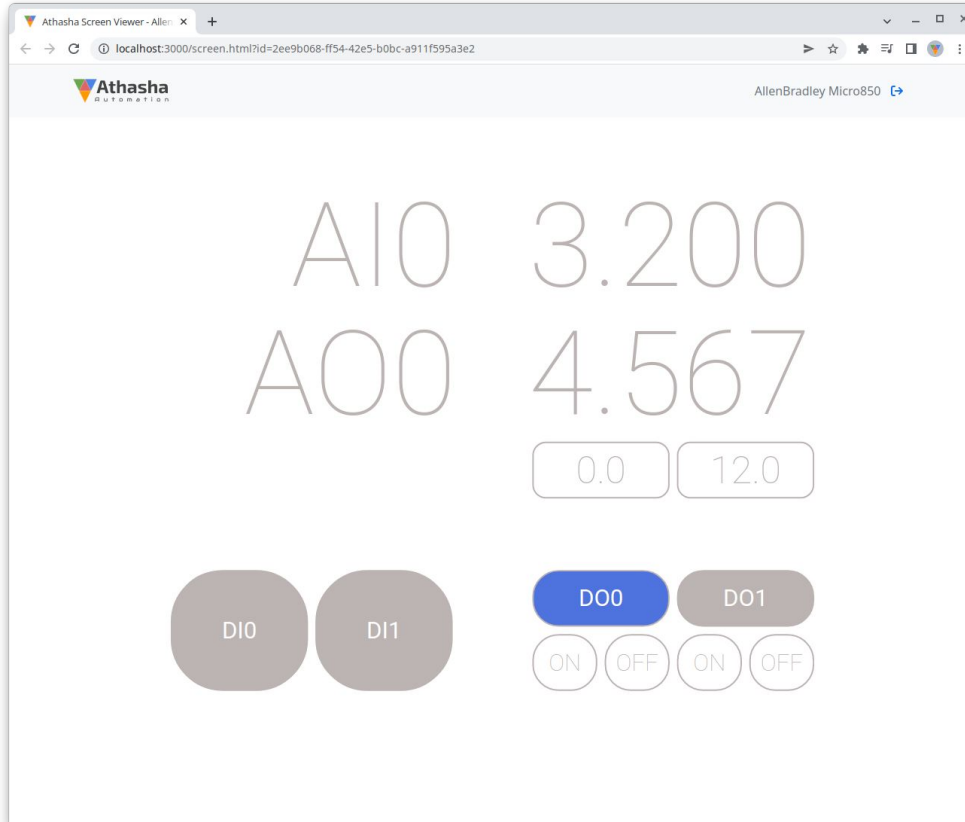
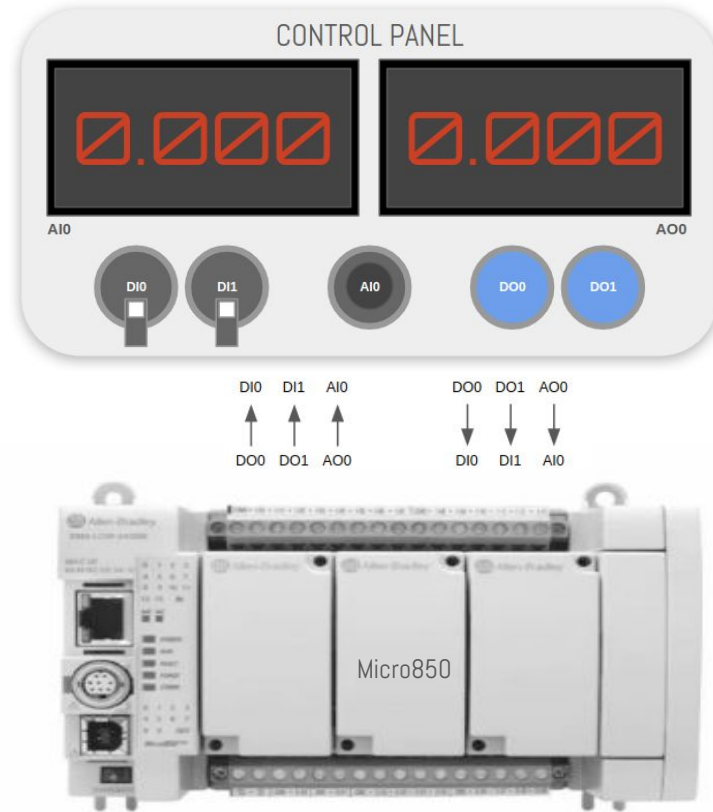
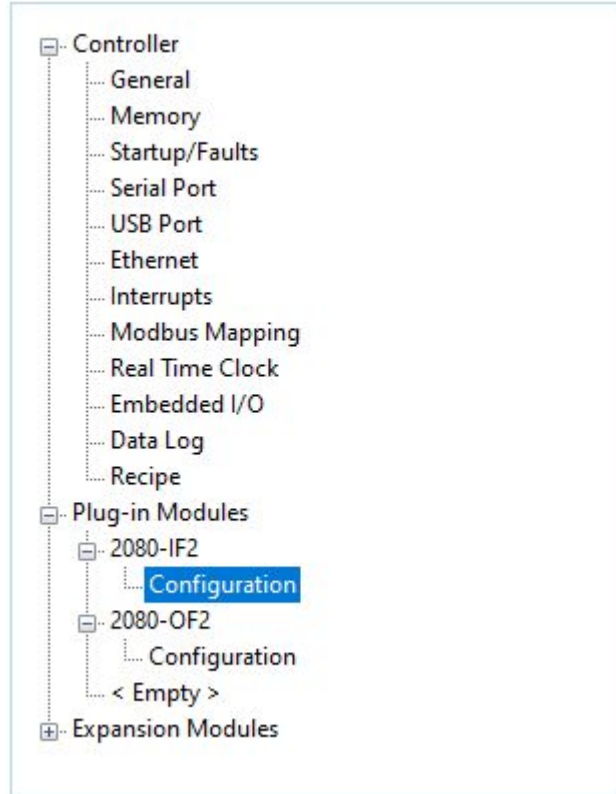


# Allen-Bradley Micro850 Demo





# PLC Configuration



2080-IF2 - Configuration

Channel	Input Type	Frequency	Input State
0	Voltage	60 Hz	Enabled
1	Current	50 Hz	Enabled

0-10 Vdc

2080-IF2 - Configuration

Channel	Input Type	Frequency	Input State
0	Voltage	60 Hz	Enabled
1	Current	50 Hz	Enabled

0-20 mAdc

## Controller - Ethernet

### Internet Protocol (IP) Settings

☒ Obtain IP address automatically using DHCP

☐ Configure IP address and settings

IP Address: 10 . 77 . 3 . 215

Subnet Mask: 255 . 0 . 0 . 0

Gateway Address: 10 . 77 . 0 . 1

☒ Detect duplicate IP address

### EtherNet/IP

☒ Inactivity Timeout 120 sec

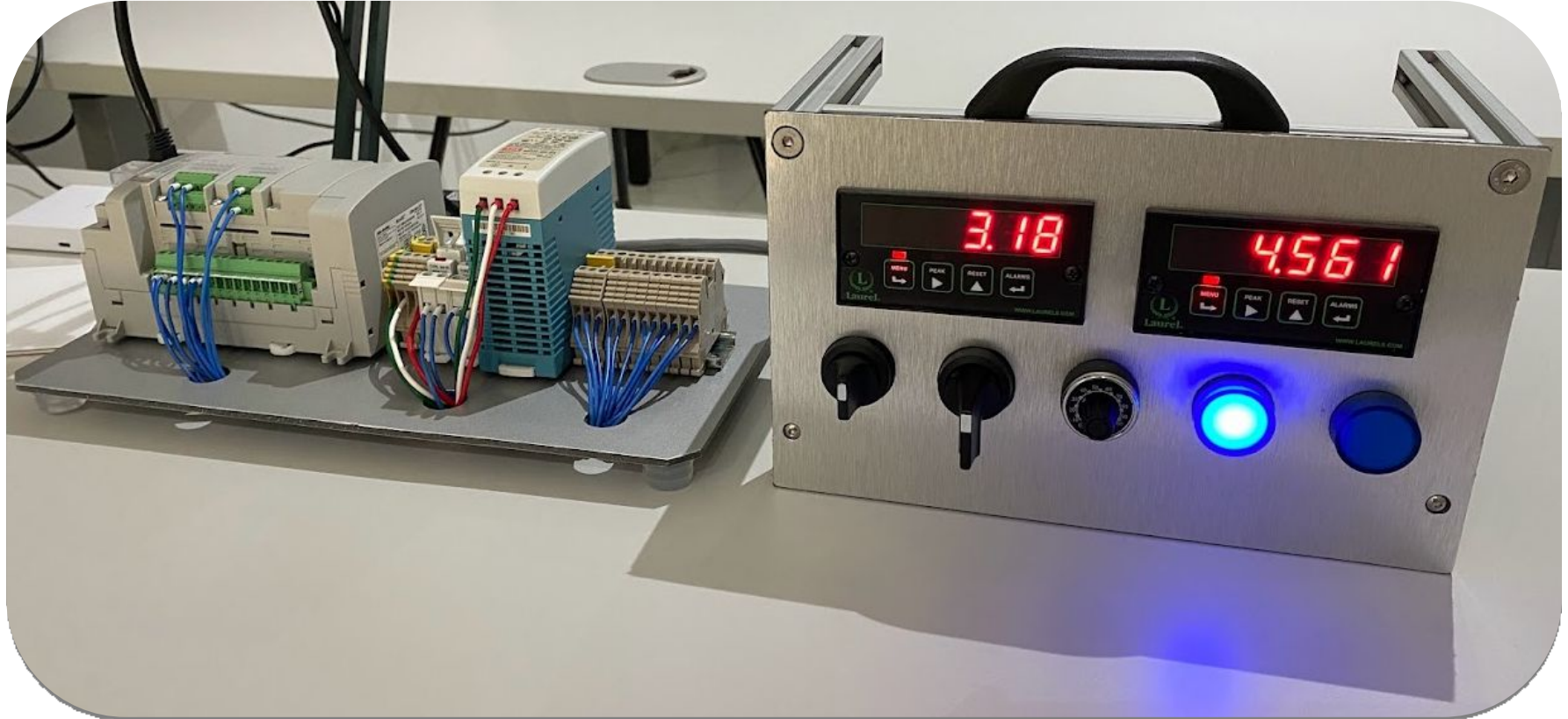
### Modbus TCP

Server state: ☒ Enabled ☐ Disabled

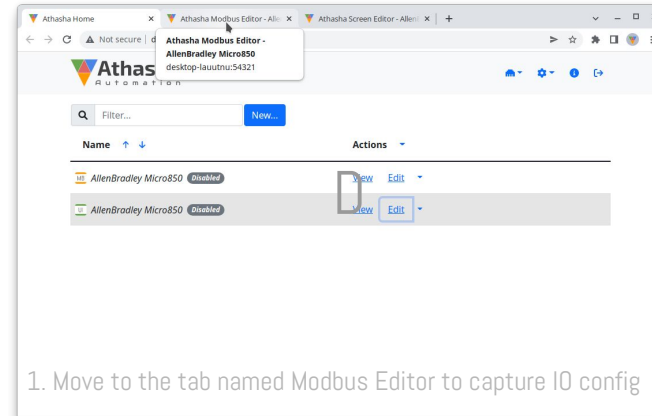
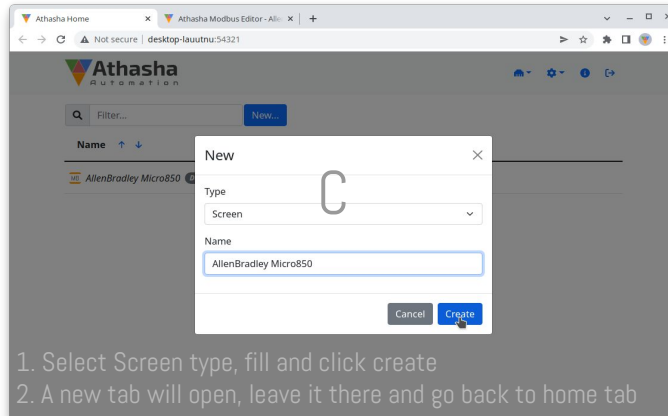
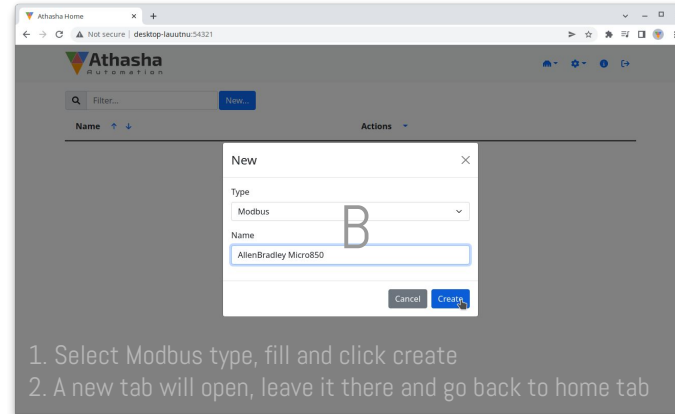
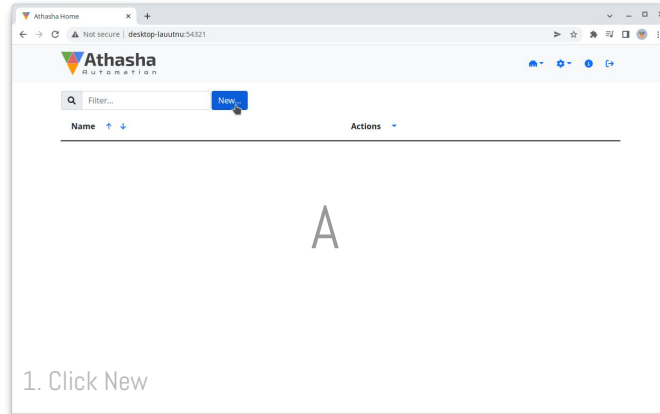
## MODBUS MAPPING

Variable Name	Data Type	Address	Addresses Used
_IO_EM_DO_00	BOOL	000001	000001
_IO_EM_DO_01	BOOL	000002	000002
_IO_EM_DI_00	BOOL	100001	100001
_IO_EM_DI_01	BOOL	100002	100002
_IO_P1_AI_00	UINT	300001	300001
_IO_P2_AO_00	UINT	400001	400001

## PLC Fixture



# Athasha Setup



# Athasha Modbus Inputs Configuration

Athasha Home

Athasha Modbus Editor - Allen

Athasha Screen Editor - Allen

+

Not secure | desktop-lauutnu:54321/editor.html?id=e30b76a5-bdb3-4e66-894f-077053c06f64

MB AllenBradley Micro850 Disabled

Transport  
Socket

Protocol  
TCP

Period (ms)  
10

Access Password

Hostname/IP Address  
10.77.3.215

TCP Port  
502

Inputs Outputs

Slave #	Address	Function Code	Input Address	Input Name	Value Factor	Value Offset	
1	1	02 Input	1	DI1	1	0	<div>✕ ↓ ↑</div>
2	1	02 Input	2	DI2	1	0	<div>✕ ↓ ↑</div>
3	1	04 U16BE	1	AI1	0.0001525902	0	<div>✕ ↓ ↑</div>
4	1	03 U16BE	1	AO1	0.00030518043	0	<div>✕ ↓ ↑</div>
5	1	01 Coil	1	DO1	1	0	<div>✕ ↓ ↑</div>
6	1	01 Coil	2	DO2	1	0	<div>✕ ↓ ↑</div>

1. Adjust to your IP

2. Click Outputs Tab

Close

View

Save

Disable

Save and Enable

# Athasha Modbus Outputs Configuration

Athasha Home

Athasha Modbus Editor - Allen

Athasha Screen Editor - Allen

+

Not secure | desktop-lauutnu:54321/editor.html?id=e30b76a5-bdb3-4e66-894f-077053c06f64

MB AllenBradley Micro850 Disabled

Transport  
Socket

Protocol  
TCP

Period (ms)  
10

Access Password

Hostname/IP Address  
10.77.3.215

TCP Port  
502

Inputs Outputs

Slave #	Address	Function Code	Output Address	Output Name	Value Factor	Value Offset	
1	1	06 U16BE	1	AO1	3276.75	0	<div><div>×</div><div>↓</div><div>↑</div></div>
2	1	05 Coil	1	DO1	1	0	<div><div>×</div><div>↓</div><div>↑</div></div>
3	1	05 Coil	2	DO2	1	0	<div><div>×</div><div>↓</div><div>↑</div></div>

1. Click Save and Enable

2. Click View

Close

View

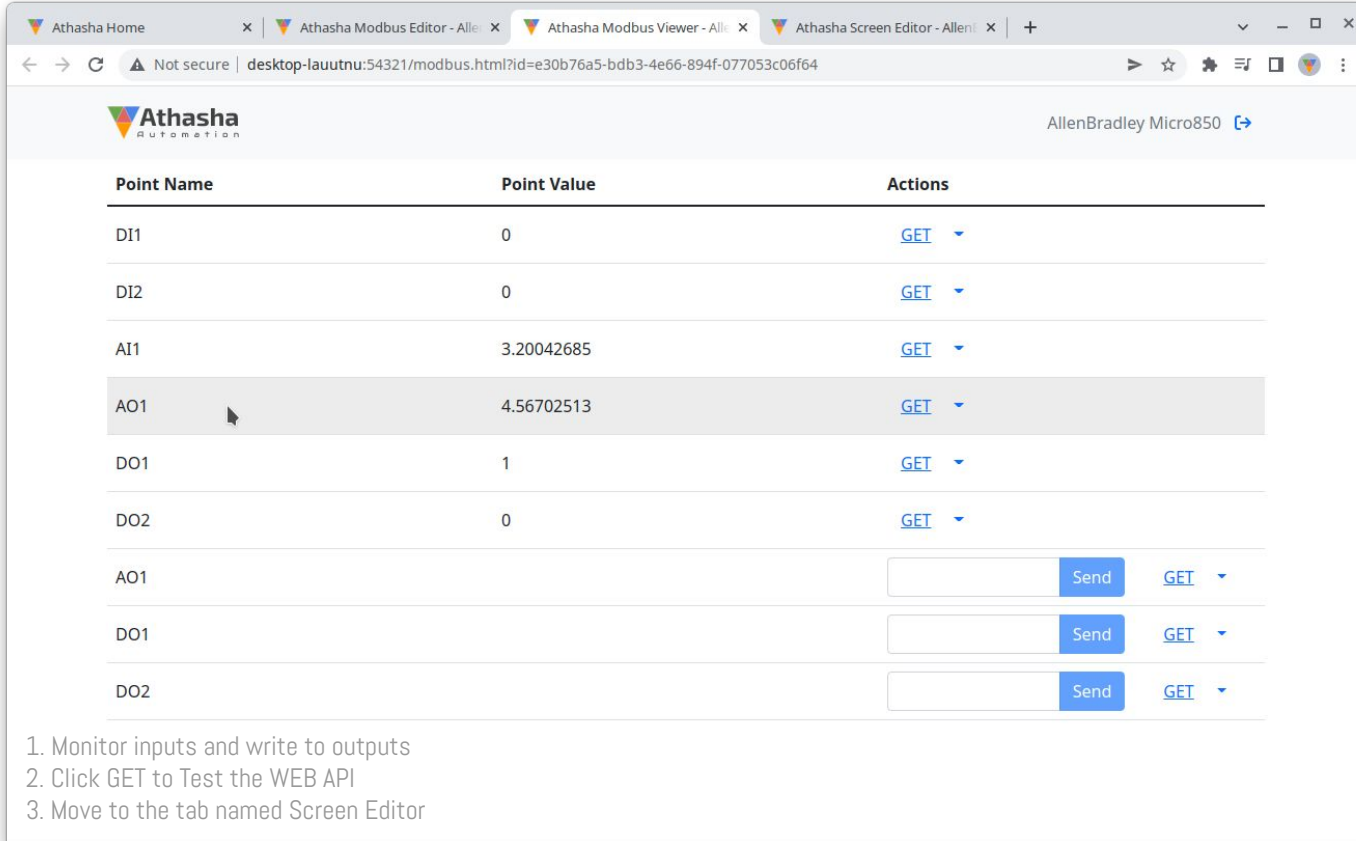
Save

Disable

Save and Enable



# Athasha Default IO Viewer



The screenshot shows a web browser window with the title "Athasha Home" and several tabs. The active tab is "Athasha Modbus Viewer - Allen". The address bar shows a URL: "desktop-lauutnu:54321/modbus.html?id=e30b76a5-bdb3-4e66-894f-077053c06f64". The page header includes the Athasha Automation logo and the text "AllenBradley Micro850".

Point Name	Point Value	Actions
DI1	0	<a href="#">GET</a> ▼
DI2	0	<a href="#">GET</a> ▼
AI1	3.20042685	<a href="#">GET</a> ▼
AO1	4.56702513	<a href="#">GET</a> ▼
DO1	1	<a href="#">GET</a> ▼
DO2	0	<a href="#">GET</a> ▼
AO1		<input type="text"/> <button>Send</button> <a href="#">GET</a> ▼
DO1		<input type="text"/> <button>Send</button> <a href="#">GET</a> ▼
DO2		<input type="text"/> <button>Send</button> <a href="#">GET</a> ▼

1. Monitor inputs and write to outputs  
2. Click GET to Test the WEB API  
3. Move to the tab named Screen Editor

# Athasha Screen Design

Athasha Home x Athasha Modbus Editor - Allen x Athasha Screen Editor - Allen x +

Not secure | desktop-lauutnu:54321/editor.html?id=2ee9b068-ff54-42e5-b0bc-a911f595a3e2

AllenBradley Micro850 Disabled

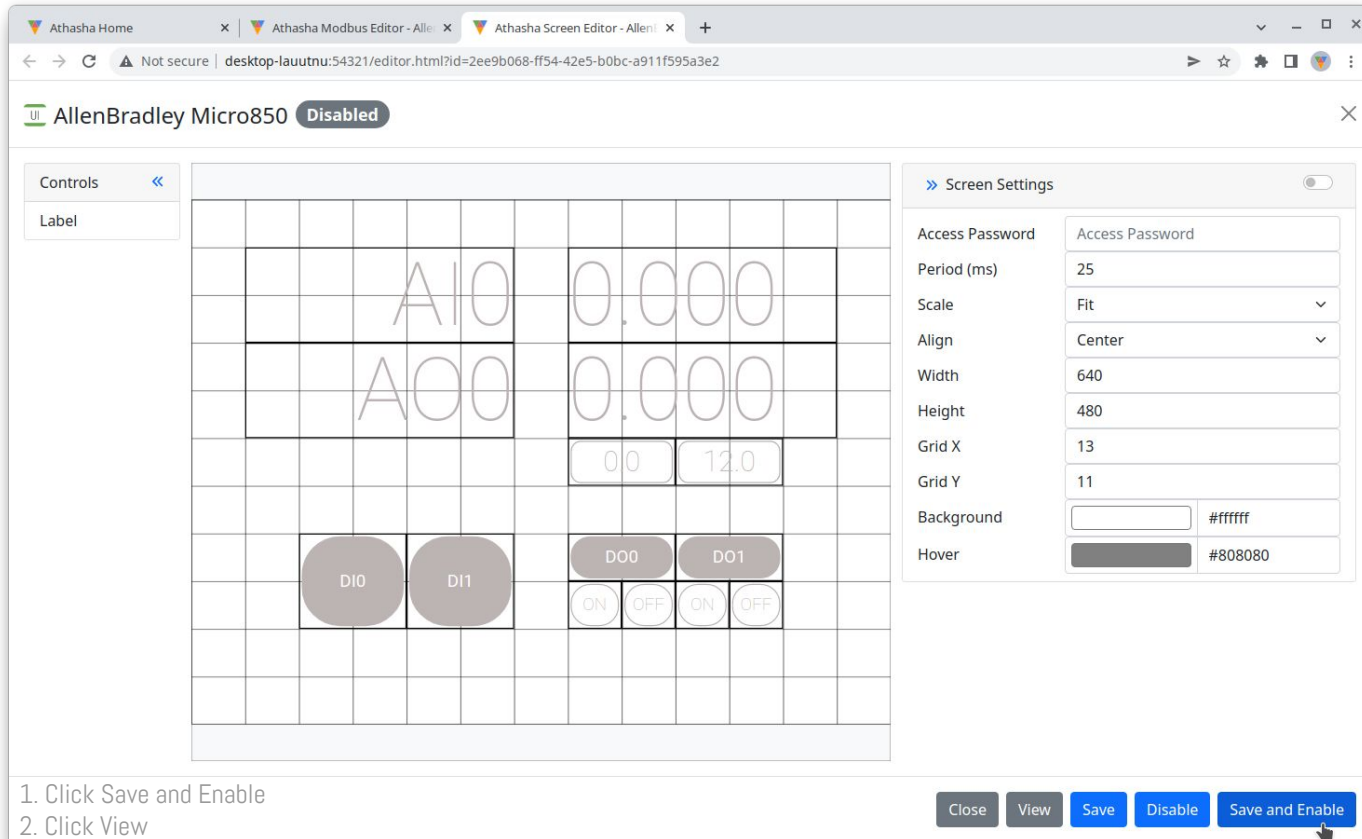
Controls <<  
Label

Screen Settings

Access Password: Access Password  
Period (ms): 25  
Scale: Fit  
Align: Center  
Width: 640  
Height: 480  
Grid X: 13  
Grid Y: 11  
Background: #ffffff  
Hover: #808080

1. Click Save and Enable  
2. Click View

Close View Save Disable Save and Enable



# You are done. Congratulations!

