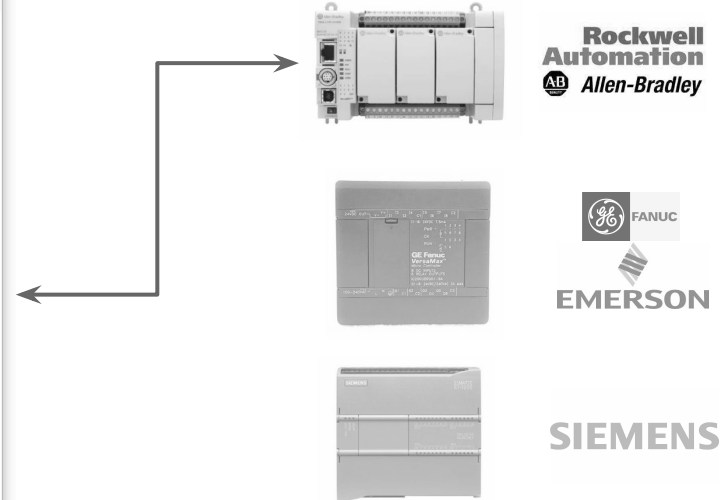
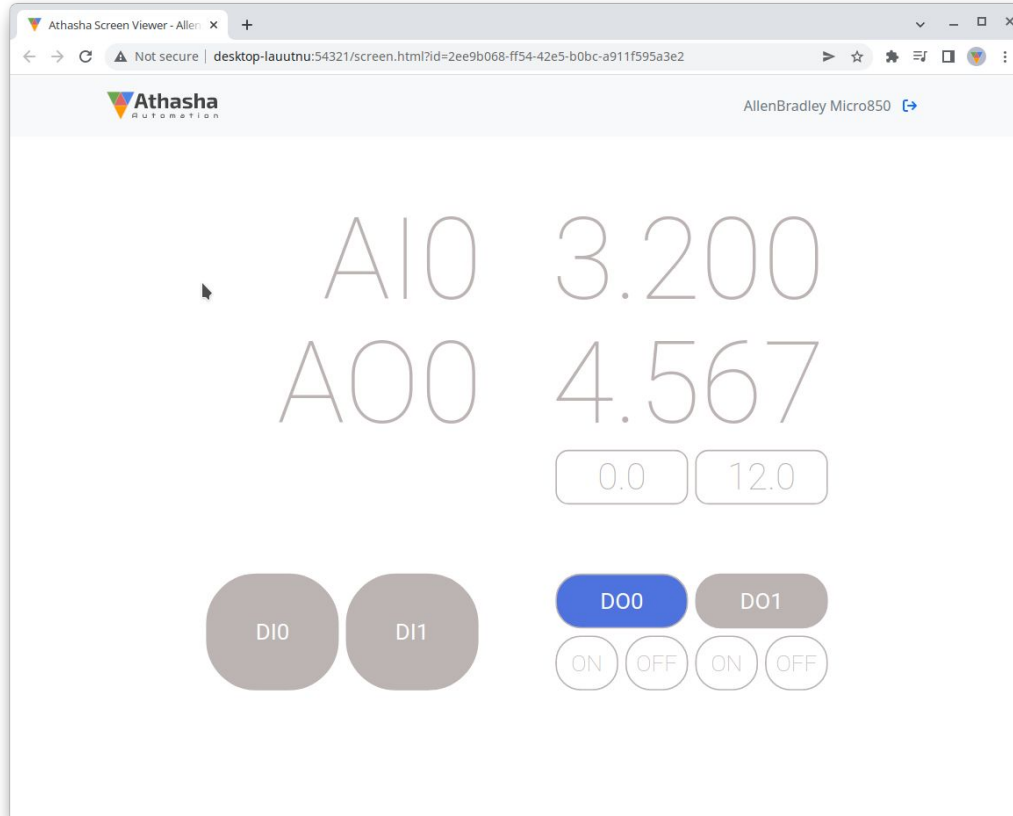
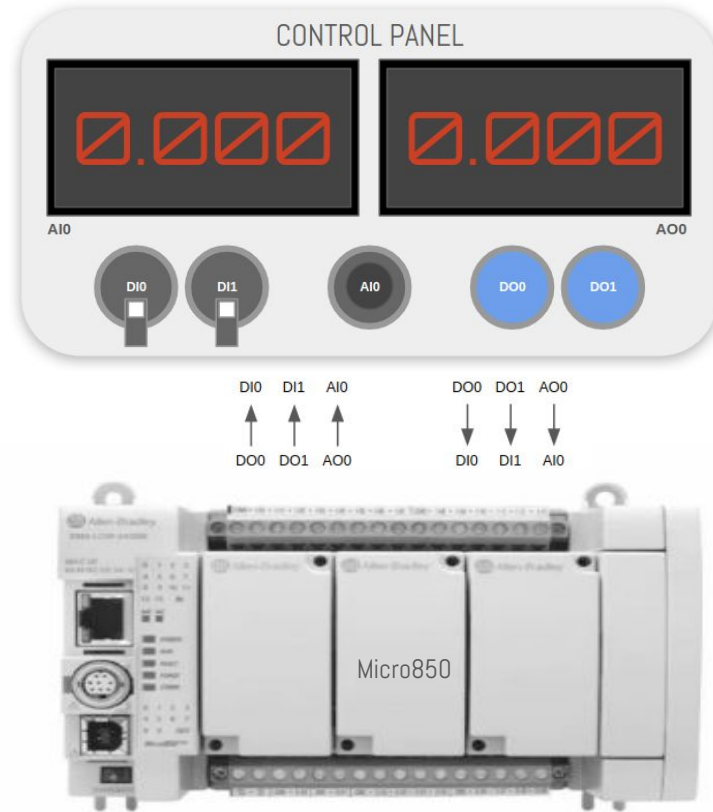
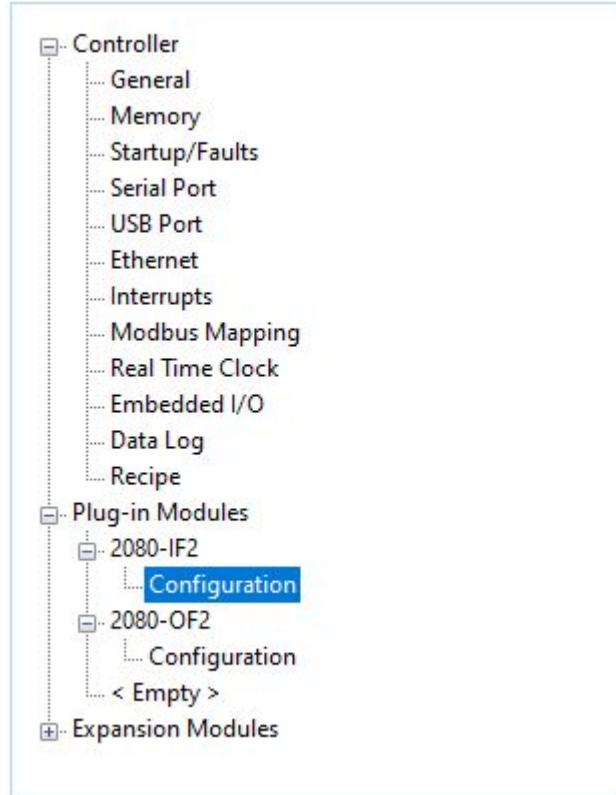


# Allen-Bradley Micro850 Demo





# 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

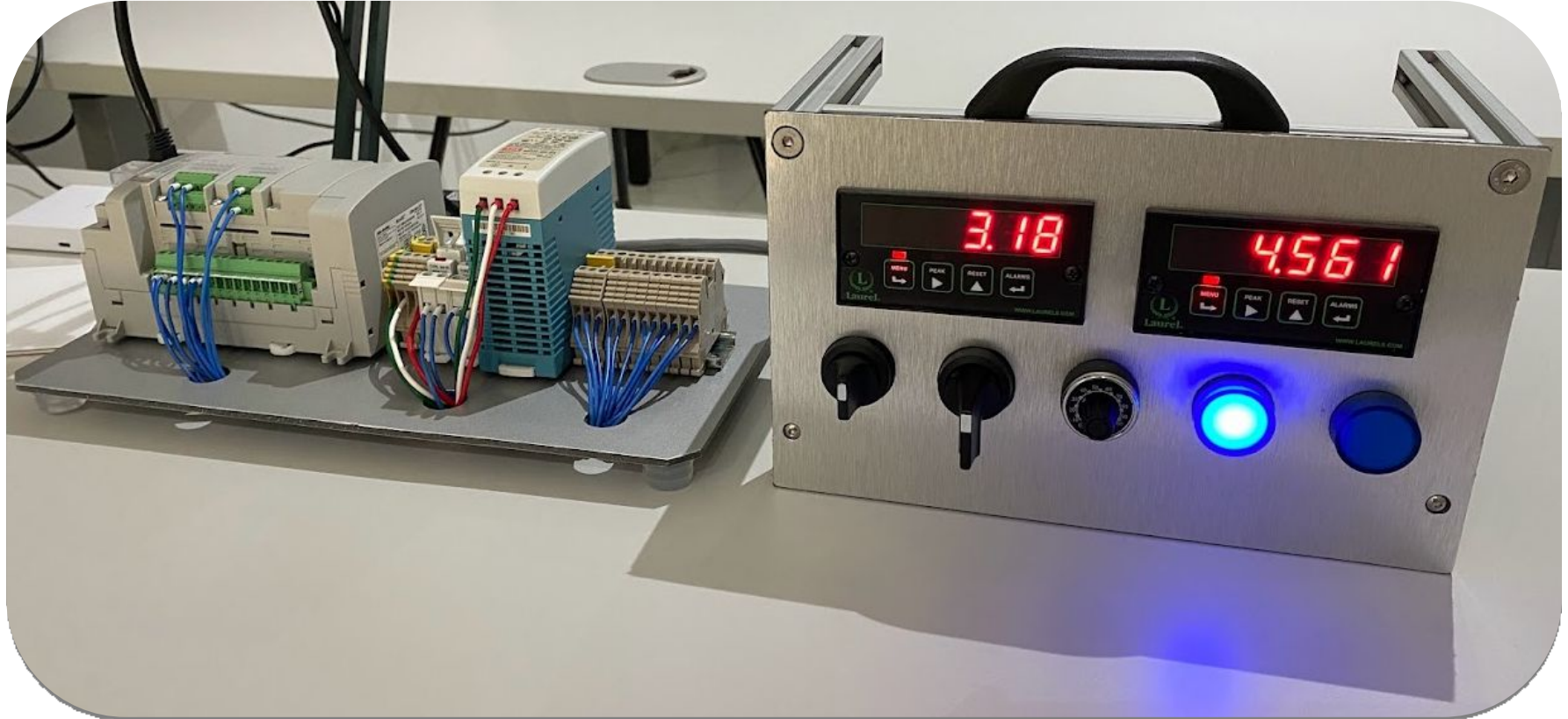
### Modbus TCP

Server state: ☒ Enabled ☐ Disabled

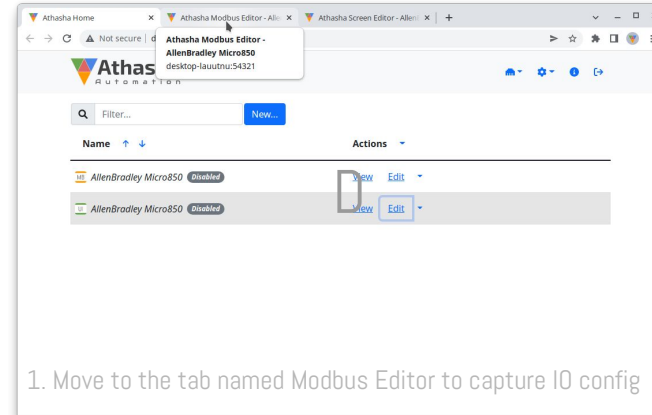
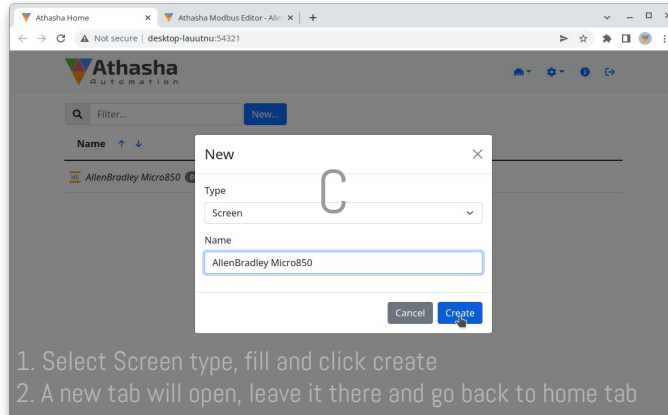
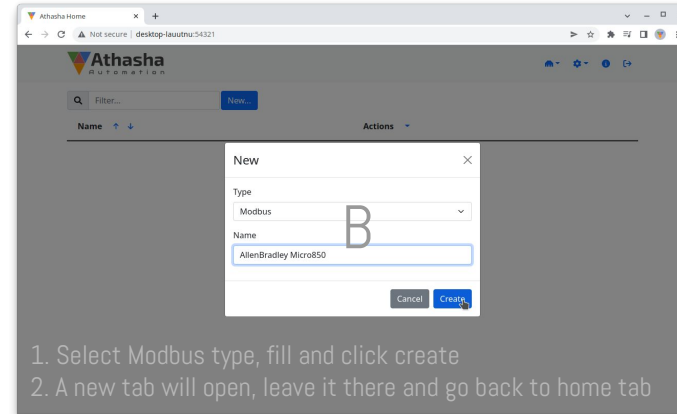
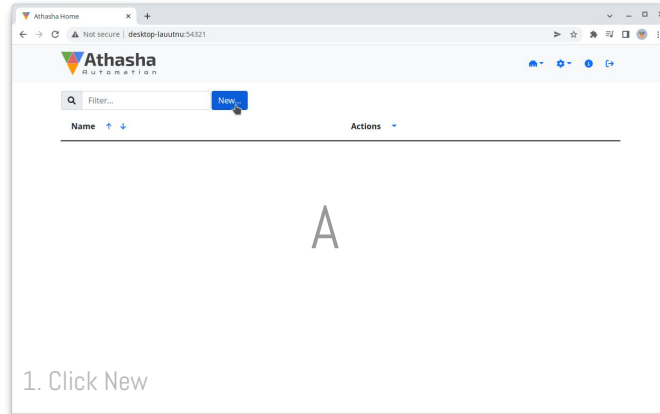
## MODBUS MAPPING

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

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	[X] [↓] [↑]
2	1	02 Input	2	DI2	1	0	[X] [↓] [↑]
3	1	04 U16BE	1	AI1	0.0001525902	0	[X] [↓] [↑]
4	1	03 U16BE	1	AO1	0.00030518043	0	[X] [↓] [↑]
5	1	01 Coil	1	DO1	1	0	[X] [↓] [↑]
6	1	01 Coil	2	DO2	1	0	[X] [↓] [↑]

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>↑</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

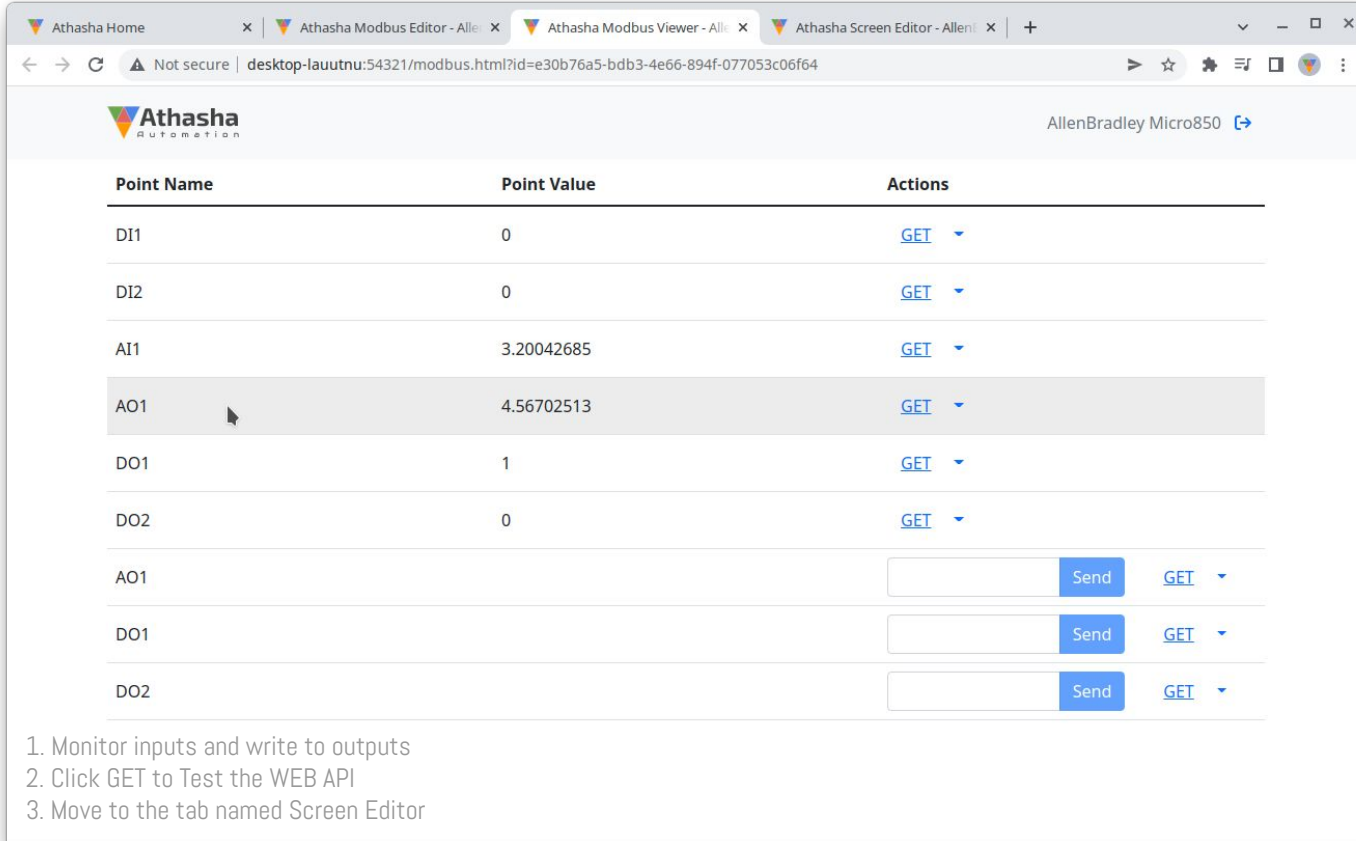
Save

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"/> <a href="#">Send</a> <a href="#">GET</a> ▼
DO1		<input type="text"/> <a href="#">Send</a> <a href="#">GET</a> ▼
DO2		<input type="text"/> <a href="#">Send</a> <a href="#">GET</a> ▼

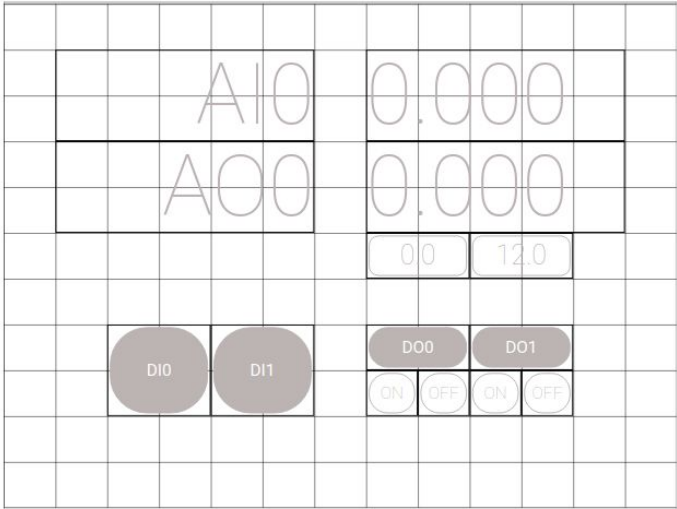
1. Monitor inputs and write to outputs  
2. Click GET to Test the WEB API  
3. Move to the tab named Screen Editor

Athasha 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

UI AllenBradley Micro850 Disabled

Controls <<  
Label



The screen design is laid out on a 13x11 grid. It features two large analog input displays labeled 'AI0' and 'AI00' showing '0.000'. Below these are two digital input displays labeled 'DI0' and 'DI1'. To the right, there are two digital output displays labeled 'DO0' and 'DO1', each with 'ON' and 'OFF' status indicators. The grid also contains smaller numeric displays showing '00' and '12.0'.

>> 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!

