

# PLC Control API Documentation

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This API provides endpoints for PLC control, supporting both GET and POST requests. All endpoints return standard JSON responses.

Default server port: 5001

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## Connect to PLC /connect\_plc

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- **Method:** GET / POST
- **Parameters:**
  - **Host** (string, optional, default: 192.168.1.11 )
  - **Port** (int, optional, default: 502 )
- **Response:**

```
{
  "Function": "ConnectPLC",
  "Result": true,
  "Message": "Connect PLC Successful 192.168.1.11:502",
  "timestamp": "2025-01-25 13:41:27_396084"
}
```

- **Example:**

```
curl "http://127.0.0.1:5001/connect_plc?Host=192.168.1.11&Port=502"
```

---

## Disconnect PLC `/disconnect_plc`

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- **Method:** GET / POST
- **Parameters:** None
- **Response:**

```
{
  "Function": "DisconnectPLC",
  "Result": true,
  "Message": "Close Successful",
  "timestamp": "2025-01-25 13:43:47_847322"
}
```

- **Example:**

```
curl "http://127.0.0.1:5001/disconnect_plc"
```

---

## Execute PLC Command `/execute_command`

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- **Method:** GET / POST
- **Parameters:**
  - `action` (string, required)
- **Response:**

```
{
  "Function": "execute_plc_command",
  "Result": true,
  "Message": "sample_action command successful",
  "timestamp": "2025-01-25 13:44:32_943210"
}
```

- **Example:**

```
curl -X POST "http://127.0.0.1:5001/execute_command" -H "Content-Type: application/json" -d '{"action": "sample_action"}'
```

Note: The available action names can be found on the action configuration page.

#	Action Name	Description	Readonly	Command List	Actions															
1	clamp_x_in	Clamp X in	<input type="checkbox"/>	<table border="1"><thead><tr><th>PLC</th><th>Type</th><th>Delay(s)</th><th>Expected</th><th>Actions</th></tr></thead><tbody><tr><td>M10000 - Clam</td><td>write_multiple_</td><td>1</td><td>0</td><td>Delete</td></tr><tr><td colspan="5">Add Command</td></tr></tbody></table>	PLC	Type	Delay(s)	Expected	Actions	M10000 - Clam	write_multiple_	1	0	Delete	Add Command					Delete Group Copy Group
PLC	Type	Delay(s)	Expected	Actions																
M10000 - Clam	write_multiple_	1	0	Delete																
Add Command																				
2	clamp_x_out	Clamp X out	<input type="checkbox"/>	<table border="1"><thead><tr><th>PLC</th><th>Type</th><th>Delay(s)</th><th>Expected</th><th>Actions</th></tr></thead><tbody><tr><td>M10000 - Clam</td><td>write_multiple_</td><td>1</td><td>1</td><td>Delete</td></tr><tr><td colspan="5">Add Command</td></tr></tbody></table>	PLC	Type	Delay(s)	Expected	Actions	M10000 - Clam	write_multiple_	1	1	Delete	Add Command					Delete Group Copy Group
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M10000 - Clam	write_multiple_	1	1	Delete																
Add Command																				
3	clamp_y_in	Clamp Y in	<input type="checkbox"/>	<table border="1"><thead><tr><th>PLC</th><th>Type</th><th>Delay(s)</th><th>Expected</th><th>Actions</th></tr></thead><tbody><tr><td>M10001 - Clam</td><td>write_single_cc</td><td>1</td><td>0</td><td>Delete</td></tr><tr><td colspan="5">Add Command</td></tr></tbody></table>	PLC	Type	Delay(s)	Expected	Actions	M10001 - Clam	write_single_cc	1	0	Delete	Add Command					Delete Group Copy Group
PLC	Type	Delay(s)	Expected	Actions																
M10001 - Clam	write_single_cc	1	0	Delete																
Add Command																				
4	clamp_y_out	Clamp Y out	<input type="checkbox"/>	<table border="1"><thead><tr><th>PLC</th><th>Type</th><th>Delay(s)</th><th>Expected</th><th>Actions</th></tr></thead><tbody><tr><td>M10002 - Clam</td><td>write_single_cc</td><td>1</td><td>1</td><td>Delete</td></tr><tr><td colspan="5">Add Command</td></tr></tbody></table>	PLC	Type	Delay(s)	Expected	Actions	M10002 - Clam	write_single_cc	1	1	Delete	Add Command					Delete Group Copy Group
PLC	Type	Delay(s)	Expected	Actions																
M10002 - Clam	write_single_cc	1	1	Delete																
Add Command																				

## Get API Version /get\_version

- **Method:** GET / POST
- **Parameters:** None
- **Response:**

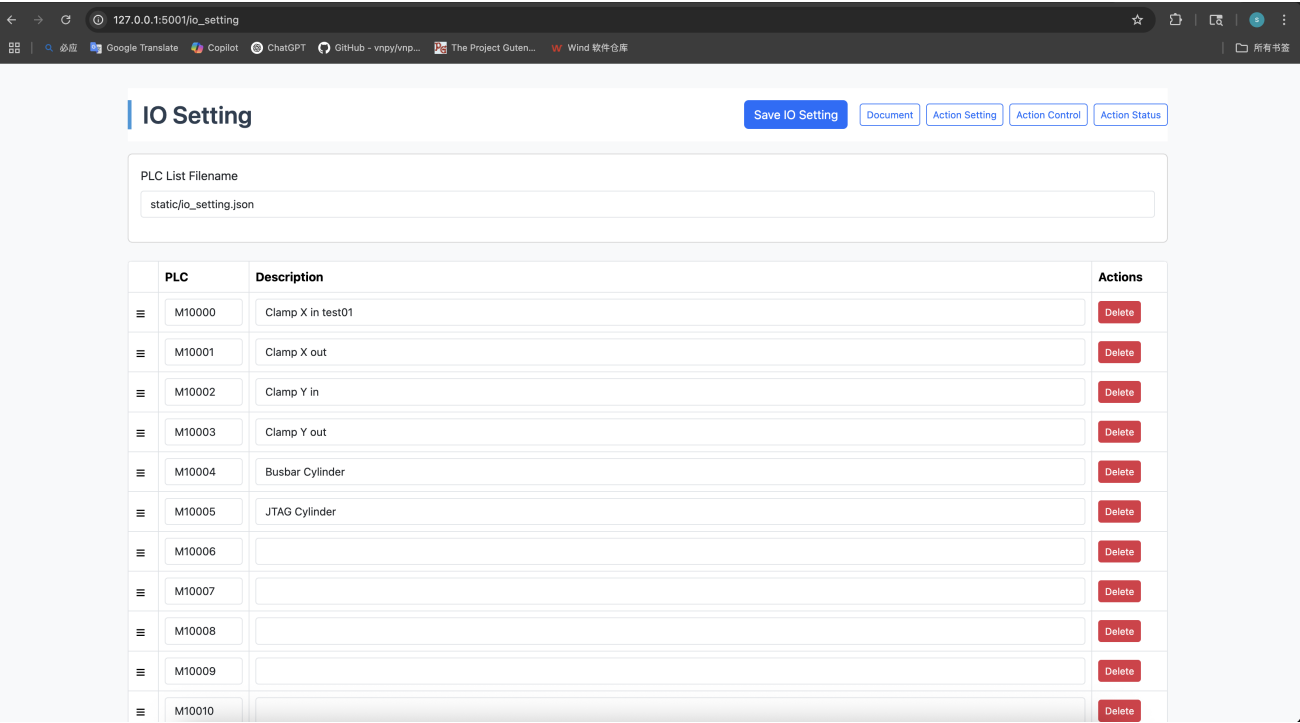
```
{  
  "Function": "get_api_version",  
  "Result": true,  
  "Message": "1.0.0",  
  "timestamp": "2025-01-25 13:50:00_000000"  
}
```

- **Example:**

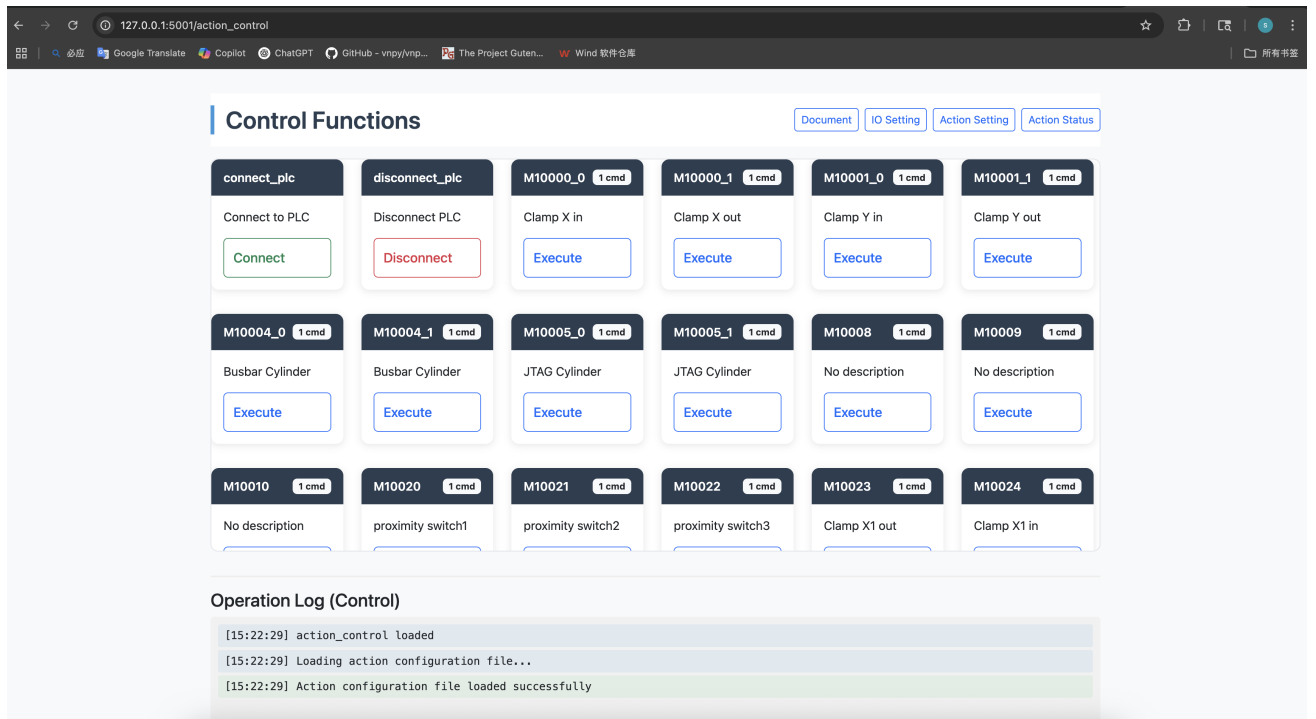
```
curl "http://127.0.0.1:5001/get_version"
```

# Page Endpoints

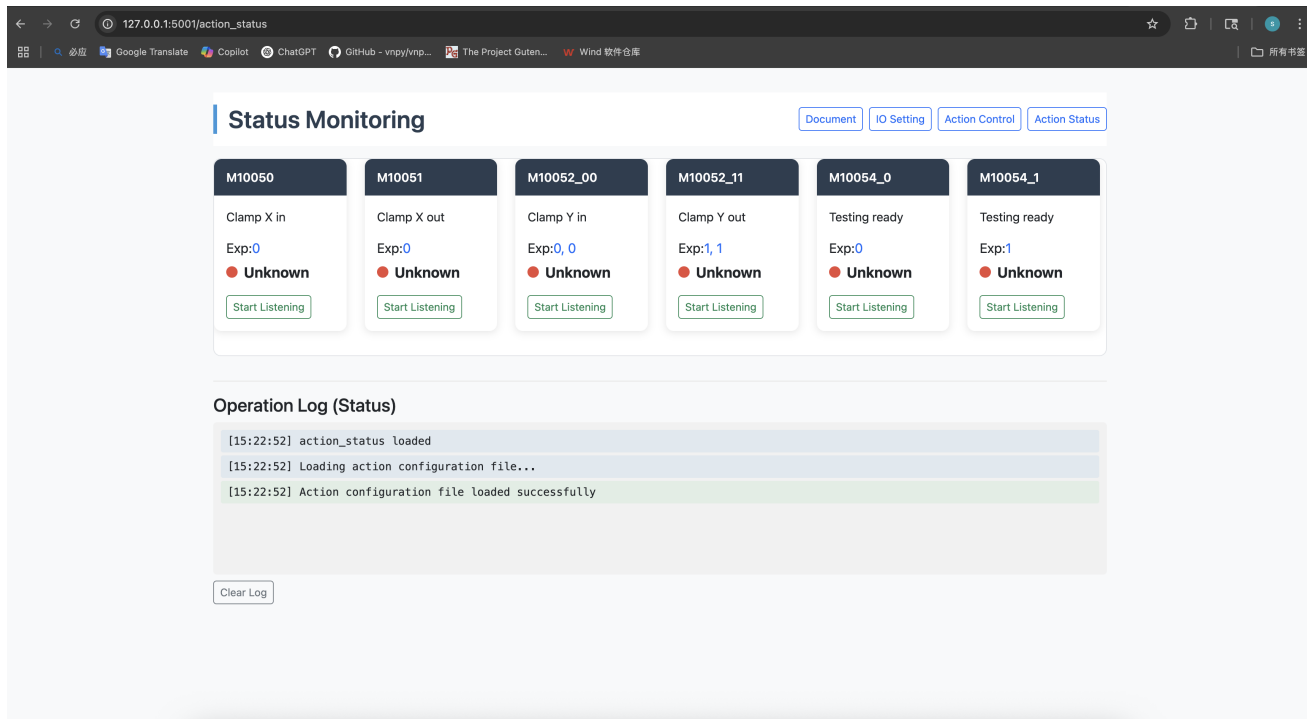
- `/io_setting` — IO configuration page



- `/action_setting` — Action configuration page
- `/action_control` — Action control page



## /action\_status — Status monitoring page



## / — API documentation page (supports ?format=json for JSON format)

127.0.0.1:5001

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PLC Control API Documentation

IO Setting Action Setting Action Control Action Status

API Version: 1.0.0

Note: All endpoints can use either POST or GET methods.

connect\_plc

Connect PLC with host and port, default host 192.168.1.11, default port 502

URL: http://{host}:5001/connect\_plc

Parameters:

[str,int],Host,Port

Returns:

Result:True or False,Message:Connect message or error message

Example:

http://127.0.0.1:5001/connect\_plc?Host=192.168.1.11&Port=502

Response:

{"Function":"ConnectPLC","Message":"Connect PLC Successful 192.168.1.11:502","Result":true,"timestamp":"2025-01-25 13:41:27\_396084"}

execute\_plc\_command

Execute PLC command with action parameter

## Error Response Examples

404:

```
{
  "Function": "Error",
  "Result": false,
  "Message": "Resource not found",
  "timestamp": "..."}

```

500:

```
{
  "Function": "Error",
  "Result": false,
  "Message": "Internal server error",
  "timestamp": "..."}

```

For further assistance, please contact the developer.