## FORCE ROBOTIC NOZZLE SETUP INSTRUCTIONS

First start up and calibration of UNIFIRE FORCE Robotic Nozzle

with Unifire's Ammolite™ Graphical User Interface



## Introduction

Unifire's Force Robotic Nozzle set up is achieved through our web browser-based graphical user interface (GUI), called *Ammolite* <sup>™</sup>.

The Unifire TARGA Robotic Nozzle PLC connects to a standard TCP/IP based network. The built-in web server has been set up to be assigned an IP address by an external DHCP server.

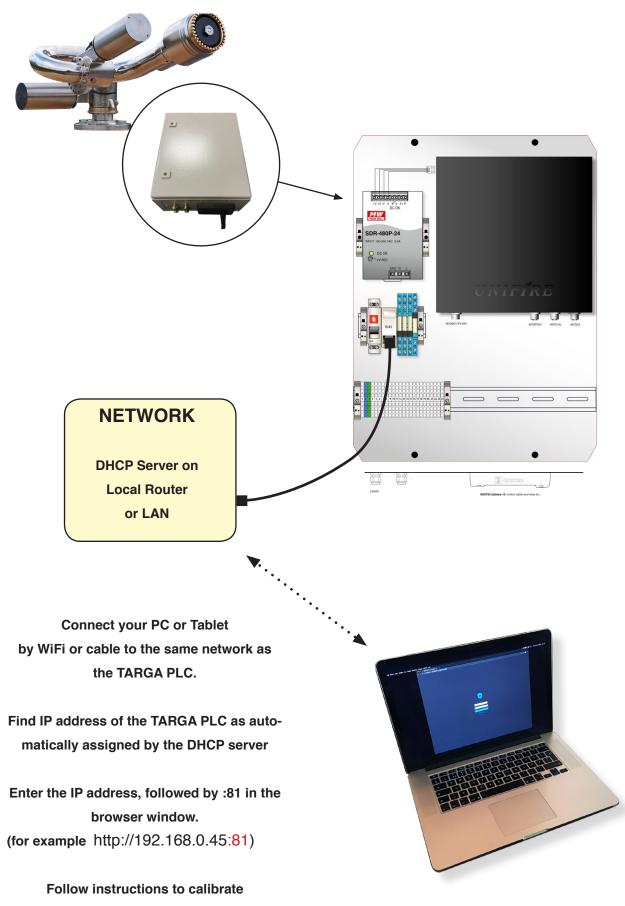
This can be a local router or a dedicated server in a larger network, administered by your IT department or similar.

To connect to the Ammolite setup graphical user interface, open a browser (Chrome, Firefox, Safari, Edge etc) and enter http:// followed by the IP address and :81 at the end (for example, if the IP address is 192.168.0.45, enter into the browser: http://192.168.0.45:81).

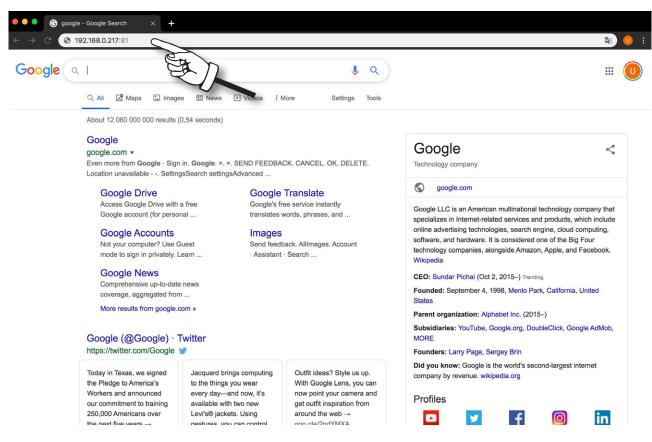
To access the Ammolite setup environment, enter the username and password, which were provided to you with your system.

It is recommended that you make a note in the service log at login.

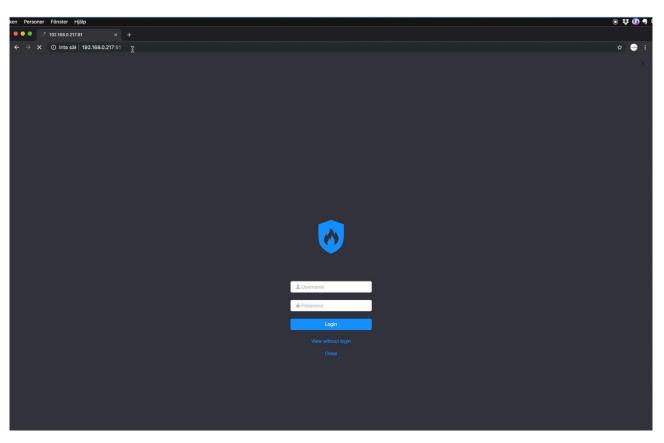
For further assistance, send your inquiry to support@unifire.com or call +46 303 248 404.



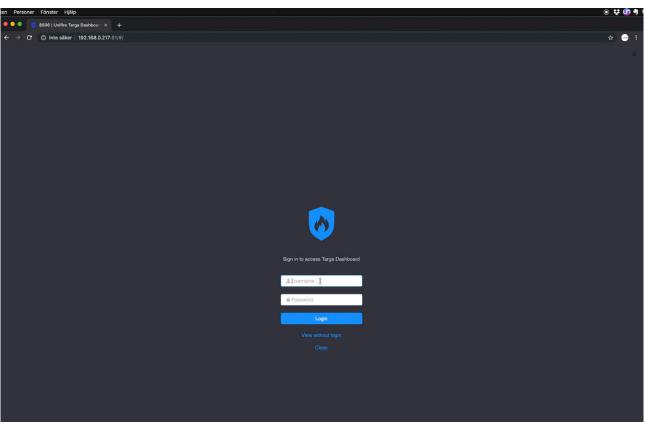
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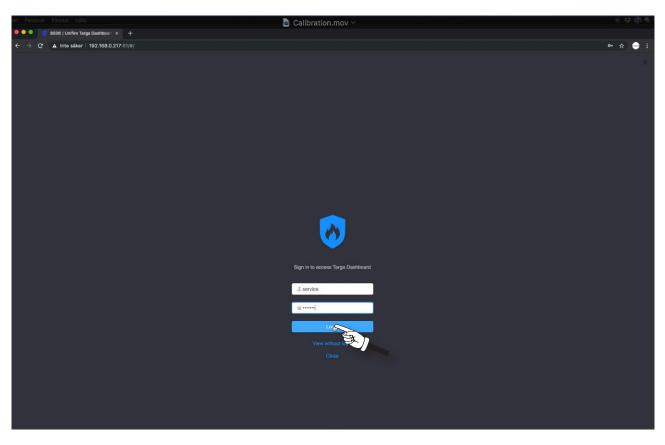
1) Open your web-browser (Safari, Chrome, Firefox or other).



2) Enter the IP Address of the TARGA PLC, followed by :81 (for example http://192.168.0.217:81). Push Enter.



3) Enter the username and password provided with your delivery.



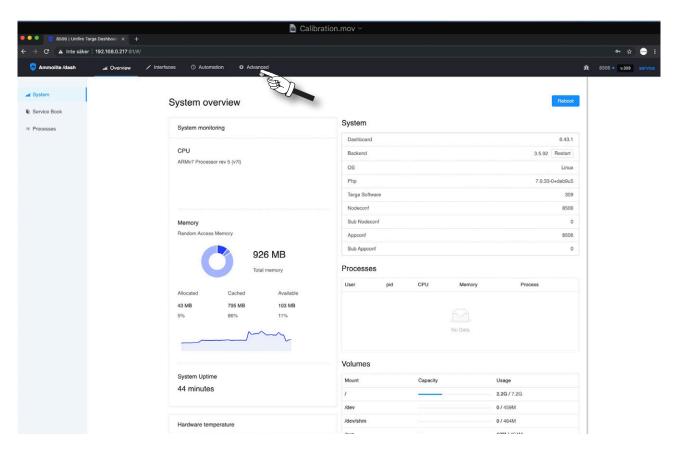
4) In this example, both the username and password are "service". Click Login.

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5) You are now requested to make a note in the service log.

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6) In this example we wrote, "Calibration" in the title, and "First start up" in the Log. Any text can be entered. After entering, this information, click **OK**.



7) This opens up the start page of Ammolite. To initiate calibration of the operating range, click "Advanced".

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8) This opens up the section Advanced settings. Next click "Hardware".

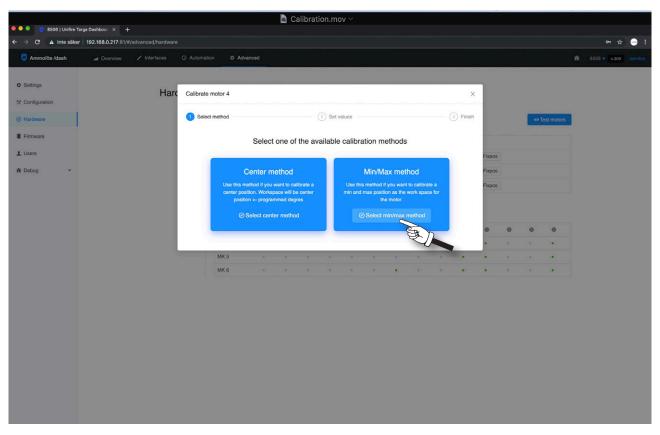
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9) This opens up the Motor page. You can read the Position of the motors, calibrated max, actual real-time current draw (A), and Motor Status.

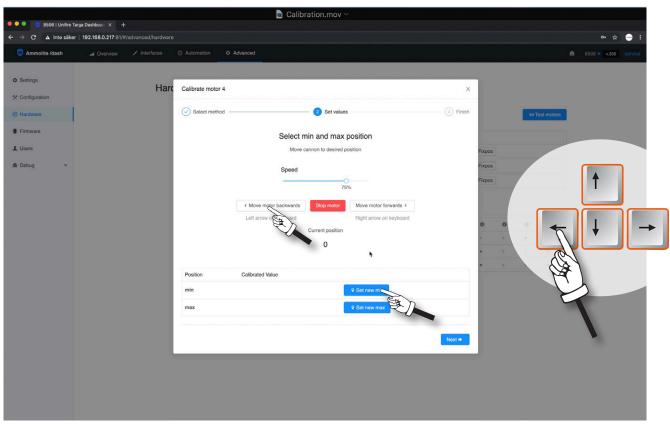
MK4 is usually horizontal, MK5 usually vertical, and MK6 usually nozzle jet/spray).

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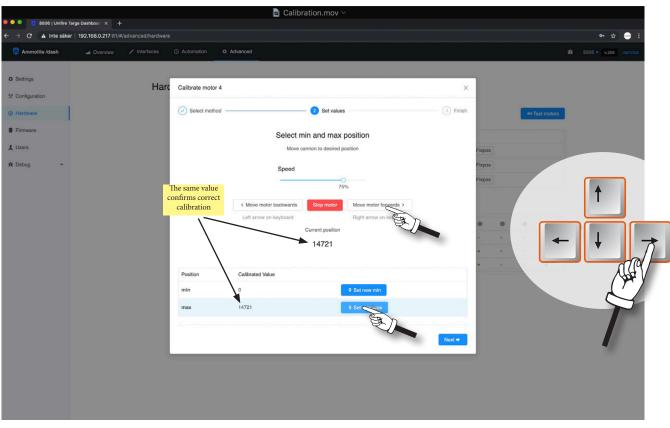
10) To calibrate Motor 4 (horizontal), click "Calibrate".



11) Select Min/Max method that allows you to freely select any operating range. (The Center method is used only for special applications when the operating range is pre-set in the software.)



12) Run the motor to the required Min position (left arrow), by using either the buttons on the screen (for tablets), or using the right/left arrow keys on your PC Keyboard. Once you have the position, Click "**Set new min**"



13) Run the motor to the required Max position (right arrow). Now the "Current position should read a value typically between 2 000 and 50 000. Click "**set new Max**".

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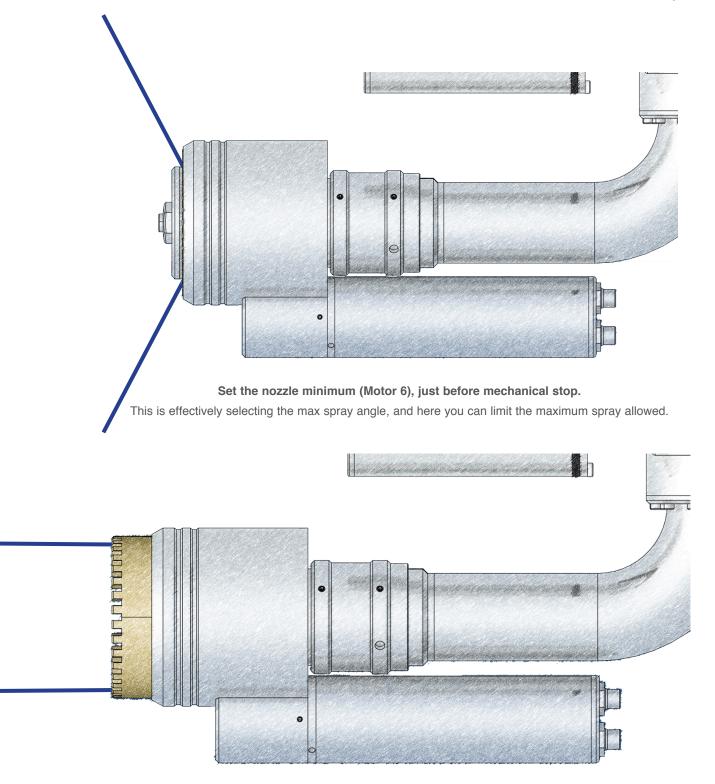
14) Next, you see this notice, confirming successful calibration.

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15) Repeat steps 10 - 15 for Motor 5 (vertical)

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MK 4
МК 5

16) Calibrate Motor 6 (nozzle jet/spray) in the same manner as you did the other motors, but follow the instructions in step 17 on the next page.



## Set nozzle maximum (Motor 6), just before mechanical stop.

This is effectively selecting the straight stream.

Here you can block the straight stream by setting the

maximum to - say - 10 ° spray, and thereby avoid a straight steam.

This is useful when the required reach is short, and you want to avoid a hard-hitting straight steam altogether.

## 17) Calibrate Motor 6 (jet/spray nozzle) as Motor 4 and Motor 5

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18) Next, you can test the motors and calibrated range directly form your PC. Click "Test motors".

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19) Check the box for each motor you want to run.

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20) Then actively choose key pair. (This must be done.)

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								MK 6							•						•	

21) Now you can run the motors with the selected key pair.



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							MK 6	2.02				200			3.85	36		2.00	303			

22) Calibration is now complete and you can exit Test Motors and Ammolite.



If you require further assistance, contact support@unifire.com or call +46 303 248 404.